

MANUFACTURERS' RECORD

A Weekly Southern Industrial and Hardware Newspaper.

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WEEKLY.

BALTIMORE, MAY 14, 1887.

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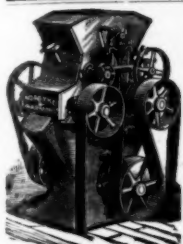
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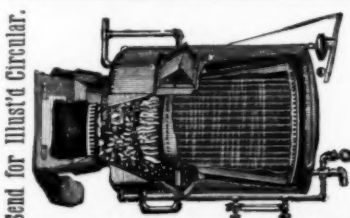
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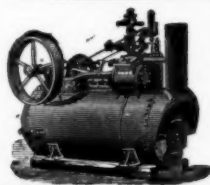
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"Perfection in House Heating By Steam."

The GORTON BOILER is a Wrought Iron Sectional Tubular Independent Steam Boiler, and needs no brick work in setting. The GORTON BOILER is made of Best Refined Iron and Steel. Can be used as Self-Feeding or Surface-Burning.

It has been two seasons before the public, and received the highest praise of "Press, Architects, Builders and Physicians."

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Plantation Engines 8, 10 and 16 HORSE POWER.
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The Best Water Wheel Ever Built.

If you are in need of a new or second-hand Wheel, write for our new Pocket Water Wheel Book for 1886. Address



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OVER 300,000 NOW IN USE. THE LIGHTEST, STRONGEST, BEST BALANCED and CHEAPEST in the WORLD.

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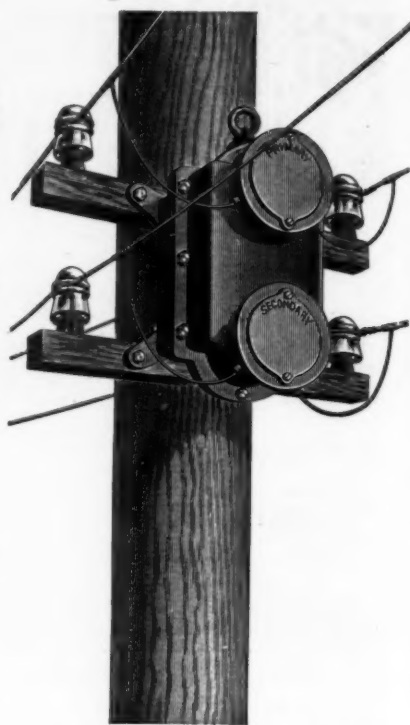
THE ALTERNATING SYSTEM.

INCANDESCENT Electric Lighting from Central Stations made Universal, Economical and Profitable, irrespective of distance.

The Westinghouse Electric Co.

Pittsburgh, Pa.

Eastern Office, 16 Cortlandt St., N. Y.



The distribution of high tension alternating currents and their reconversion to low tension currents for incandescent lighting and running of motors, is broadly covered by patents owned by this Company.

The unauthorized offer of apparatus of this character by other companies is an infringement of our patent rights.

Notwithstanding the ownership of the exclusive right to furnish this system, THE WESTINGHOUSE ELECTRIC COMPANY proposes to sell its apparatus on such terms and for such low prices that no intending purchaser or user can afford to entertain a proposition for alternating current apparatus from others at any price, with the attendant risk following the infringement of its rights.

This is the only method of electrical distribution avoiding complicated wiring, feeders, feeder regulators and numerous other details that have prevented commercial success heretofore, and the only system that can displace gas.

This system costs much less than any other to install. It gives more light per horse power or per pound of coal consumed. It requires less copper for mains. There is less risk of fire. It costs less to operate and the station may be located on inexpensive ground with reference to cheap fuel.

The largest and most complete manufactory of electric lighting machinery in the country.

The most efficient and durable lamps in the market.

Mechanically the most perfect electrical machinery ever produced.

The workmanship and materials of all apparatus supplied are of the best. The prices are based upon production in large quantities by means of special tools and machinery; and the elimination of all extraneous charges, such as commissions, stock considerations, and onerous conditions exacted by other companies, and which have placed many of their customers in such a position that improvements offered by others cannot be availed of.

No licensee is bound by contract to purchase longer from THE WESTINGHOUSE ELECTRIC COMPANY than the merits of its apparatus fully justifies.

— **TEN 50 VOLT, 16 C. P. LAMPS, PER HORSE POWER, GUARANTEED.** —

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THE FUEL-GAS AND ELECTRIC ENGINEERING COMPANY, LIMITED, operating in conjunction with The Westinghouse Electric Company and the Standard Underground Cable Company, proposes to make electric lighting profitable to gas companies, by enabling them to use a part or the whole of their existing gas plants for the manufacture and distribution of fuel-gas, thus promoting a new and profitable business instead of rendering valueless large investments that have already been made in illuminating gas plants.

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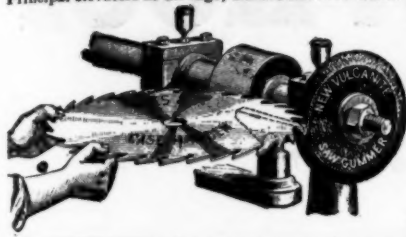
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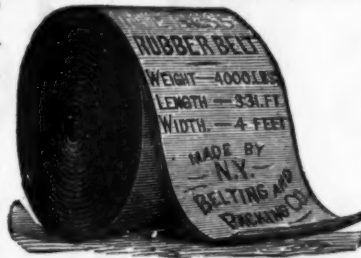
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Patent Elastic Rubber Back Square Packing

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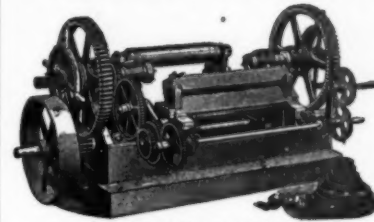
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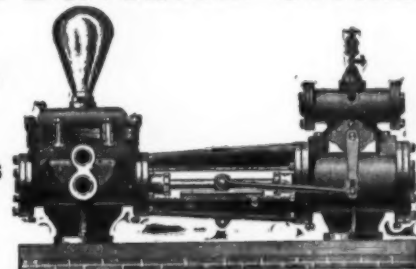
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THE M. T. Davidson Steam Pump.

Simple,
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MADE IN
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DRAWING FRAMES, ANY LENGTH, WITH 3, 4 AND 5 LINES OF STEEL ROLLERS.

English Slubbers and Fly Frames, With Long or Short Bolsters.

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RING SPINNING FRAMES, 2, 1¼, 1½ AND 1½ INCH RINGS.

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THE Hercules Water Wheel IN THE SOUTH.

WHAT SOUTHERN USERS SAY OF THE HERCULES.

There is probably no higher authority in the South on water wheels than Mr. John Hill, civil and mechanical engineer, of the great Eagle & Phenix Cotton Mills, at Columbus, Ga. Read what he says of the Hercules Wheel.

The Best Wheel We Have.

JOHN HILL, CIVIL AND MECHANICAL ENGINEER,
Reference—Eagle & Phenix Mfg. Co.

COLUMBUS, GA., April 30, 1887.

As to my opinion of the Hercules Wheel, will say: In our mill (the Eagle & Phenix) we have twenty-one (21) water wheels of various kinds, three of them being Hercules. I regard the Hercules as being by far the best wheel of any we have. It is the best in workmanship, absence from repairs, large per cent. in power, and in general satisfactory results. I know of no wheel its equal. At Holyoke, testing flume a few weeks since, I personally witnessed a test of a Hercules of the ordinary construction, which gave 83 96-100 per cent. of efficiency.

Yours truly,

JOHN HILL.

Cannot Speak too Highly of the Hercules Wheel.

JAMES RIDDLE, SON & CO.
Brandywine Cotton Mills.

KENTMERE, DEL., April 27, 1887.

In reply to your inquiry as to the working of a "Hercules Water Wheel" now running at our mills, would say that we put in nearly two years ago a 39-inch Hercules Wheel, running under a 14½-foot head. It is driving up to full regular speed three hundred and three heavy looms, with only half gate. We are about to enlarge the weave mill and add three hundred more looms, which will be driven by the same wheel. We cannot speak too highly of the Hercules. It has absolutely run without cost or derangement since it started, and has given eminent satisfaction in every way.

Yours truly,

JAMES RIDDLE, SON & CO.

Perfectly Satisfactory in Every Way.

PORTER WOOLEN MILL.

J. H. Porter, President. J. W. Robertson, Gen. Manager.

CLARKSVILLE, GA., April 29, 1887.

In reply to enquiry as to my opinion of the Hercules Turbine Water Wheel, say: I have put in two, one about

six years since, and the other in 1883, and think so highly of the wheel that I shall use another in cotton mill this company is now constructing. Neither of the wheels alluded to have given the slightest trouble, and their working has been perfectly satisfactory in every way.

Yours truly,

J. W. ROBERTSON, Gen. Man.

The Hercules Wheels Have Given Perfect Satisfaction.

ROSWELL MANUFACTURING CO.

Sheetings, Shirts, Checks, Yarns, &c.

ROSWELL, COBB COUNTY, GA., April 29, 1887.

In answer to yours of 25th inst., asking our opinion of the Hercules Wheel, will say our experience is as follows: In our new mill, built about four (4) years ago, we put a 30-inch Hercules Wheel, under a 21-foot head of water. It has given such satisfaction running this (5,000) five thousand spindle mill, that last summer, when we were compelled to put in a new wheel at our old mill, running 7,000 spindles, looms, twisters, &c., we put in a 36-inch Hercules Wheel, under a 27-foot head of water. All I can say is we have surplus power in both mills, have lost no time by any defect of wheels, and if we were putting up any more mills, would use the Hercules Wheel. They have given us perfect satisfaction.

Yours respectfully,

F. J. MINHINETT, Prest.

A Good Wheel, and Has Given Good Satisfaction.

PEE DEE MANUFACTURING CO.

Plaids and Warps.

ROCKINGHAM, N. C., April 30, 1887.

We have been using the Hercules Water Wheel for more than six years. Our superintendent says it is a good wheel, has given good satisfaction, and its performance is equal to the claims of the maker. We have a head of 17 feet. Our wheel has a diameter of 39 inches. Under this water pressure the wheel has moved 4,000 spindles and the needed preparation, and 164 plaid looms. The above includes the dye house, machine shop and all other machinery which we employ.

Very respectfully,

WALTER L. STEELE, Prest.

Best Wheels I Have Ever Seen.

MARIETTA PAPER MANUFACTURING CO.

Book, News and Wrapping Papers.

MARIETTA, GA., April 30, 1887.

In reply to your favor of the 25th inst.: I am using four Hercules Water Wheels, two 12-inch, one 24-inch,

and one 30-inch. They have given me perfect satisfaction, and I think that they are the best wheels that I have ever seen.

Yours truly,

S. A. ANDERSON.

Has Never Given the Slightest Trouble.

PACOLET MANUFACTURING CO.

Jno. H. Montgomery, Prest. and Treas.

PACOLET, S. C., April 29, 1887.

Replying to yours of 25th, would say: We have a 54-inch Hercules Water Wheel running, under 20-foot head, 12,000 spindles and 338 looms, with other necessary machinery. Has been running about three and a-half years, and has never given us the slightest trouble; not an hour's stoppage during the whole time.

Very truly yours,

JNO. H. MONTGOMERY, Pres. and Treas.

Well Satisfied With It.

WM. J. RUSSELL,

Manager Princeton Factory.

ATHENS, GA., April 28, 1887.

I have used the "Hercules" wheel since 1881, and am so well satisfied with it that I should not purchase any other if in want of a first-class wheel. It does all the manufacturers claim for it.

Yours truly,

WM. J. RUSSELL, Manager.

Has Given Entire Satisfaction.

HOLCUMB'S ROCK, BEDFORD CO., VA., }

April 28, 1887. }

The Hercules Wheel has given entire satisfaction.

Very respectfully,

J. A. HARRIS & CO.

Unhesitatingly Say its the BOSS Wheel.

BUZELA, GA., April 29, 1887.

I have been using a 21-inch "Hercules Water Wheel" since August 1880, and unhesitatingly say it is the BOSS wheel. It has performed with utmost satisfaction, and given more power than the makers claim, using water with more economy than any wheel I ever knew. T. W. G. Inglett, Esq., who has put up two "Hercules" for parties, says "it can't be beat."

Very respectfully,

BRAD. MERRY.

THE HERCULES

Gives the Most Power for its Size and the Highest Average Percentage from Full to One-Half Gate of Any Wheel Ever Made.

If you want to buy a new Water Wheel, if your old wheel does not give satisfaction, if you would like to know just how perfect a Water Wheel can be made, or if you are in any way interested in Water Wheels it will pay you to write for Catalogue No. 3 to the

HOLYOKE MACHINE CO., Worcester, Mass.

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OPENERS, LAPPERS, REVOLVING FLAT CARDS, ELECTRIC STOP MOTION DRAWING FRAMES, SLUBBING, INTERMEDIATE, ROVING AND FINE JACKS, (NEW PATTERNS 1886) ALL MADE BY TOOL WORK; EVERY PART EITHER TURNED, MILLED OR PLANED, AND CONTAINING MANY PATENTED AND VALUABLE IMPROVEMENTS. WARPERS, COPPER CYLINDER SLASHERS, (New Models.)

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BUFFALO, N. Y.

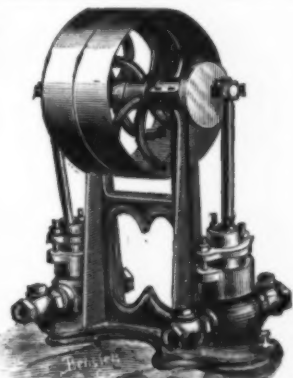
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and Purifiers.

Single and Double Plunger
BOILER FEED PUMPS.

The Red Jacket Flue Blower.

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THE IMPROVED FLORIDA STEAM HEATER

The best and most complete House Heater in the world. Self-feeding, automatic, portable and saves all expense of brick-work. Most economical. Carries steam from 10 to 12 hours without attention. Compact. 14 sizes, from 4 to 6 feet high. Anti-clinker grate, easily shaken, no dust. Sales larger than the combined sales of all reputable Steam Heaters.

3500 in ACTUAL USE,
all giving the best satisfaction. Estimates furnished on application. Send for Illustrated Catalogue. Address

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The DEANE STEAM PUMP CO.

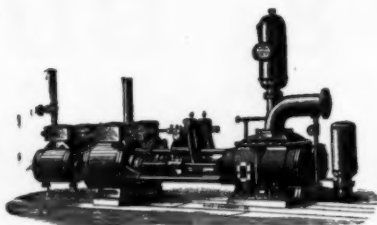
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STEAM * PUMPING * MACHINERY

OF EVERY VARIETY.

Send for New Catalogue No. 22.



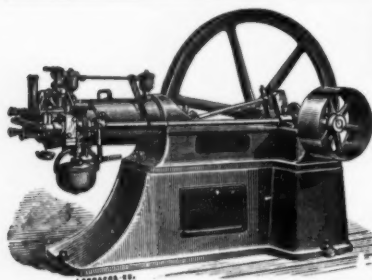
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Over 18,000 in Use.

Otto Gas Engine20 to 70 per ct. less Gas
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ANY OTHER ENGINE.

Working Without Boiler, Steam, Coal, Ashes or Attendance.

Started instantly by a Match, it gives full power immediately. When stopped, all expense ceases.

Guaranteed to Consume 25 to 75 Per Cent. less Gas than any other Gas Engine Doing the Same Work.

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UNSURPASSED IN EVERY RESPECT for hoisting in warehouses, printing, ventilating, running small shops, &c. Sizes: 1 to 25-Horse power.

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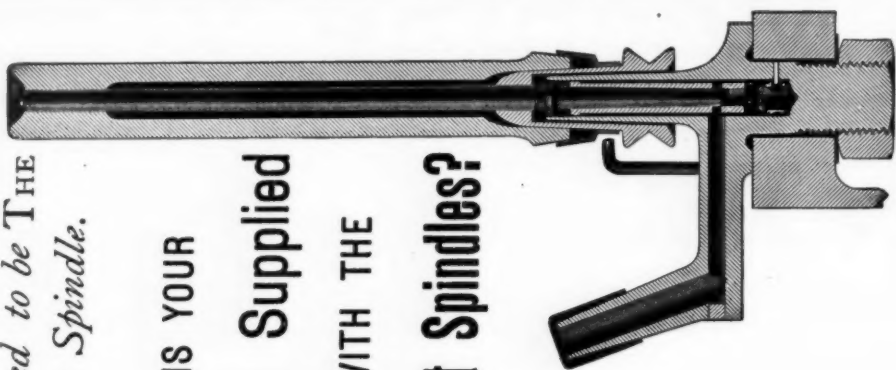
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NUMBER 49 RABBETH SPINDLEIs undoubtedly the most economical
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Is More Simple in Construction, More Effective in Operation, and

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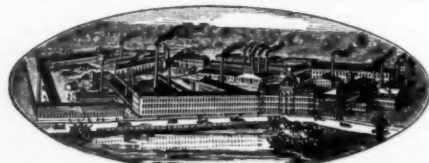
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BALTIMORE, MAY 14, 1887.

The Cotton Crop.

Telegrams to Bradstreet's as to the cotton crop show that the crop of the country, owing to a backward spring and dry weather generally throughout the belt, is late from five days to two weeks. Compared with recent seasons, however, the disparity as to planting-time is not so great, and in several sections the planting has been finished fully as early, and, in some cases, earlier than last year. The greatest delay in planting has been in those sections usually showing early progress. In Texas especially the dry weather assumed the proportions of a drouth, which delayed planting, and where seed was put in it delayed germination. But the past few days have shown a marked change for the better in cotton crop prospects. Rain has been general in many States, and the Texas drouth has been effectually broken. The present spring shows a sharp contrast with that of 1886, when there was too much rain. Crop conditions are good, and it is probable that 75 per cent. of the crop has been planted. The general condition of stands is good, and chopping-out has begun in several States. The most cheerful reports come from the Carolinas. In Georgia and Alabama dry weather has delayed planting and retarded growth where the seed was already in. The weather has been too cool for rapid growth, but a change in this respect is noted. The general crop prospects are reported equal to those of last year at this time, though it is too early to decide definitely.

The telegrams show that the supplies at the smaller uncounted towns are almost exhausted. Many towns report no stocks at all. Nearly all show that where cotton is held now, stocks are vastly less than at the like date last year. As examples of this the following towns are instanced: Meridian, Miss., has a stock of 200 bales; last year this time, 2,000 bales. Grenada, Miss., has no cotton on hand; one year ago 500 bales were held. Fort Smith, Ark., has 400 bales; one year ago, 5,000 bales. The stock at Opelika, Ala., is 50 bales; last year it was 400 bales.

It may be of interest to know that where the question of acreage is reported it is generally accompanied by a statement that the area planted is equal to if not exceeding that of last year. This is more manifest in the Southwest.

The Harvests of the Sea.

The opening of coal and iron mines, the building and operating of coke ovens and furnaces, the extension of railroads through virgin forests, and the construction of saw mills and woodenware factories that speedily follows, the erection of cotton and cotton-seed oil mills, and all that miscellaneous development that has within a few years furnished employment and wages in other occupations than agriculture to tens of thousands of Southern laborers, have caused somewhat of an advance in the price of labor, and are putting into circulation monthly larger sums of money than were ever before paid as wages in the South. Such being the fact there is a growing inclination among the young negro men to leave agriculture and engage in some other employment. The number of wage-earners who must be fed is steadily increasing, while the Southern planters and farmers who raise more food than they can consume are comparatively few. This change of occupations and its consequences were foreseen by Major E. A. Burke, of the New Orleans Times-Democrat, who as director-general of the Exposition of 1884-'85, caused provision to be made for an exhibit of the work of the negro race that should show what progress they had made during twenty years of freedom, and their capacity for engaging in all occupations. His views respecting this were first given at large by the publication of his address to the colored people of Washington, D. C., in the spring of 1884. Among other things, he told his audience that the time was at hand when improved agricultural implements would release thousands of men and women from Southern fields, and that the mills, factories and workshops would need them all. All these would cease to be food producers, but would add that much to the number of consumers. The prediction of Major Burke has been literally fulfilled much sooner than he anticipated, for the three years last past have witnessed such advances as never were seen in any other country.

The large additions that have been made to the class of wage-earners in the South, and the consequent reduction of the number of food producers, give interest to the question, how shall all these people be economically fed? Must the South always depend upon Northwestern corn-fields and slaughter-houses, or can it do better? This is not a novel inquiry, but one to which the most thoughtful men, the leading journals of the cotton States, and many of their legislatures have given serious consideration. One practical result of these investigations has been the establishment of fish commissions in several States, which, co-operating with the national institution at Washington, have been able to restock their rivers with edible fish to such an extent that there is in many

enough for home consumption, and a surplus that can be sold in other States. But while much has been done in this direction, it is only a beginning. Modern scientists have discovered practical methods for multiplying the number and variety of food fishes in rivers, lakes and ponds. Fish propagation has become as simple a business as the cultivation of cotton or corn, and the harvests of the sea and interior waters are quite as certain as those of the field. From Chesapeake bay to the Rio Grande river are sounds and bays into which rivers are pouring whose sources are hundreds of miles in the interior. All these can be made to teem with food fishes, while the ocean and gulf will continue to yield their bountiful harvests, and from these sources will be derived a considerable portion of the people's food.

It is sometimes sneeringly said by captious old fogies that the multiplication of fish in the interior waters of the South will demoralize the negro; that if the latter can set on a river's bank and catch enough for the day's needs, he will not work. All such sneers would be beneath notice if none but those who know the negro best heard them. Unfortunately they are repeated elsewhere and receive some credence. Southern development is progressing steadily, because what white men plan is executed by the strong muscles of industrious negroes. The stocking of rivers with food fishes, instead of promoting laziness, will give opportunities for new industries, with their attendant blessings of work and wages.

The agriculturists of the interior know little of the magnitude of the fishing business, of the vast capital it employs, of the thousands of families that depend upon it, of the number and variety of occupations upon which it makes requisition, and of the many diverse forms of business which it has called into being. Especially is this true at the South, whose agriculturists for the most part are a stay-at home people pursuing their daily round from one year's end to another—a people to whom the sea is a mystery and its harvests almost a fable. Yet many of these have caused laws to be enacted that made the oversight of fish propagation a part of the duty of their State's department of agriculture, and so, while looking to the betterment of their own harvests, have also made provision for getting a share of the harvests of the sea.

THE Messenger, of Goldsboro, N. C., has surpassed all its former efforts in the way of special issues, and has just gotten out a 20-page paper, not only showing up the growth and the advantages of Goldsboro, but likewise taking in all the neighboring towns. The Messenger is one of our most enterprising exchanges.

Buy "THE NEW SOUTH." Handsomely bound in cloth. Price \$2.50.

A Marvellous Report.

We think it quite probable that the annual report of President H. M. Caldwell, of the Elyton Land Co., of Birmingham, is the most remarkable report ever submitted to any corporation in America. The tale of wonderful progress that his figures unfold is indeed magical, and the history of this great company, under the management of Dr. Caldwell, may be studied with much profit by every man interested in the development of the South, and especially by the leaders in the many growing industrial centers of that section. That Dr. Caldwell has managed the Elyton company with consummate ability it is needless for us to say.

Starting 15 years ago with a cash capital of \$100,000, this company passed through some trying ordeals, but since Dr. Caldwell was placed at the head it has met with wonderful success. His report for the past year shows real estate sales of \$4,866,955.57, more than quadruple any previous year's business of the company. During the year the company distributed free to its stockholders \$500,000 of water works stock worth par, paid in cash dividends \$1,320,000, invested \$250,000 in permanent improvements and set aside as reserved profits \$3,614,395.58, making a grand total of \$5,684,395.58 as the visible results of one year's work. Moreover it is estimated that at present the property of the company is worth \$15,000,000, which must steadily increase with the growth of the town. In his report to the stockholders Dr. Caldwell said:

Your past experience has been that an active real estate market is usually followed by a period of dullness, and these recurring periods usually follow each other at short intervals. The dull period which has just set in, following such a long extended time of activity, may be more than usually protracted. This inaction of the real estate market is the result of several causes. In the first place, it is a natural consequence, the lull after the storm, next the new and more rigid rule for the assessment of taxes, and perhaps more than anything else, it is due to the uncertainty and confusion resulting from the passage by Congress of the interstate commerce bill, a law which, if rigidly enforced, will result in the general and complete paralysis of the commerce and industries of the South.

A further cause is the fact that the attention of investors is now divided among so many other points in the South. After so prosperous a year, we can afford to wait for the tide. The tax question will regulate itself, and it is hoped that a wise and public-spirited commission and an intelligent judiciary will not fail to so construe the interstate commerce law, as to avert the dire calamity which now seems inevitable to the otherwise prosperous South.

After referring to the great liberality of the company in securing the location of industrial enterprises at Birmingham by the donation of sites and financial help, and it was this liberality which has returned to the company such unequalled prosperity, the report says:

A short time ago, your company, by its aid, secured the erection of the Williamson furnace. You have long since had returned

to you every dollar of the money which you put into it, and the stock which you received for the land upon which it is located, has doubled in value. The same operation can be repeated in many directions and to an indefinite extent. We have in Birmingham one of the finest and best equipped rolling mills in the country, which for twelve months past, has been unable to supply the demand for its products. Some of the industries of Birmingham using rolled iron have been compelled to send to Pittsburg for it, because it could not be supplied here. Suppose the Elyton Land Co. determines to erect another rolling mill. We purchase the best and most improved machinery, employ a first-class manager to take charge of it, and let him employ his corps of operatives, and announce to them that the entire profits above a reasonable per cent. upon the capital invested will be divided annually among the employees. By this means you interest, directly, every employee in the success of the enterprise, and avert all danger of strikes. So soon as the success of the enterprise is assured, the stock can be sold for all or more than its cost. Build also a stove foundry, locomotive works. If this is done, and done properly, it will soon increase the population of Birmingham, to one hundred thousand, and double the value of your property, possibly, without the loss of one dollar to you.

The question for you to decide is whether the Elyton Land Company can afford to loan, say one million or more, in order to increase the value of your real estate one hundred per cent., as well as add as much to the value of your water works and railroad investments, and make for yourself the name of being the most progressive and public-spirited corporation that has ever blessed the South. Should this convention adopt strong resolutions announcing to the world that the Elyton Land Company has determined to sustain Birmingham by inaugurating some such scheme as suggested, it would effectually remove all doubt from the minds of the public that here was to be the great industrial center of the South. It would at once establish confidence, and enhance the value of your property more than the entire amount the works would cost you.

At the conclusion of the reading of this report, Col. D. S. Troy moved that the directors be authorized to expend \$1,000,000 in the erection of a rolling mill and such other enterprises as in their judgment may be deemed expedient, and this was unanimously adopted. It is stated that "the company's new enterprises will all be on the co-operative plan. All profits above a reasonable rate of interest on the capital invested are to be divided annually among the employees. The money will be spent in erecting a rolling mill, stove foundry, locomotive works, and buildings for other smaller industries."

One great secret of the success of this company in building up Birmingham has been the energy displayed in its management. A wise liberality has characterized its dealings in securing new industries, and when once an enterprise had been determined upon no time was lost in pushing it to completion. The rapid growth of Birmingham and the great prosperity of the Elyton Land Co. should stimulate the people of the whole South to greater exertions in the development of their magnificent resources.

If you are not already a subscriber to the BALTIMORE MANUFACTURERS' RECORD, send us \$3 and you will receive it regularly for one year, or six months for \$1.50.

A Correction of the New Orleans States.

Commenting on an editorial in the MANUFACTURERS' RECORD against the interstate commerce bill, the New Orleans States says:

We are not astonished to find language of this sort in the MANUFACTURERS' RECORD respecting the interstate commerce act. The MANUFACTURERS' RECORD is a consistent supporter of monopolies and of the interests of tall corporations, and *per contra* an opponent of everything that has a tendency to thwart those corporate interests.

Our friend of the States is greatly mistaken, wilfully it would seem, for there is no excuse for such a misstatement. The MANUFACTURERS' RECORD is a consistent and persistent supporter of what it believes to be for the best interests of the whole South. It advocates the claims of no monopolists. It was one of the first to begin the fight against that monopoly—the American Cotton Oil Trust—which threatened serious injury to Southern farmers, and it has been one of the most persistent opponents of that gigantic concern, and one of the warmest supporters of the new company which is to break the power of the Trust. It has since its first issue been wholly devoted to the advancement of the South; not a part of it, but the entire South; not to any particular line of progress, but to everything that tended to the material prosperity of all classes. Believing that the prosperity of the manufacturing and the agricultural interests is inseparably connected, and that the latter would never be freed from the poverty caused by the all-cotton curse except by the development of a home market for all the products of diversified agriculture, it has labored unceasingly to aid in this by the building up of manufactures. Week after week and year after year it has carried to all parts of this great country its picture of the marvellous resources, the unequalled advantages and the wonderful progress of the South. Its columns have been freely opened to every village, town and city in that section that desired to make its attractions known to the world through this medium.

It has opposed the interstate commission bill simply because it believed it to be a piece of demagogical work that would greatly injure the South. Did we believe that it was a just measure that would be beneficial to that section, none would give it a more hearty support than the MANUFACTURERS' RECORD. We challenge the States to produce a single proof of its assertion that the MANUFACTURERS' RECORD has ever supported a monopoly. The States is so bitterly opposed to every advocate of a protective tariff that it can see no good in this or in any other paper that favors protection, and we suppose its statement regarding monopolists is based simply on the fact that this paper has persistently advocated a protective tariff. If our work in behalf of the industrial interests of the South constitutes the MANUFACTURERS' RECORD a supporter of monopolists, then we can stand the accusation.

A Strong Point Against the Interstate Bill.

Mr. Willard Warner, one of the leading iron manufacturers of the South, being unable to appear before the interstate commission, sent the following telegram which presents one objection to parts of this bill in a very strong light:

NASHVILLE, TENN., April 25.—To M. H. Smith, vice-president Louisville & Nashville Railroad, Atlanta, Ga.: I cannot appear before the interstate commission in Atlanta to-morrow without very serious neglect of business, but you can say to them for me, if you choose, that I am, as a shipper, without interest in any railroad, in favor of the indefinite suspension of the "long and short haul" clause of the interstate law, for the greatest good to the largest portion of the people of the entire country. Whether existing railroad rates were right or wrong, the business of the country had adapted itself to them, and vast amounts of capital had been invested and great industries founded on these rates. Even a wrong becomes a right by long usage, both by common and statute law. For a hundred years the people of the United States had been left to adjust rates of freight with carriers, and upon this long usage rates had become established by the usual laws of trade, capital invested, industries founded and labor domiciled, when Congress, by a law as arbitrary as it is unintelligible, changed rates, affecting values to the amount of millions of dollars and disastrously disturbing manufacture, trade and labor. In the power granted the commission to suspend this disturbing clause lies the only present way of relief, and for the aversion of great injury to thousands of people and to vast amounts of invested capital. Even the most ultra-theoretical free-traders admit that they must go slow in changing what they regard as unjust tariff laws, lest they too severely hurt industries established on the faith of these laws. Yet the tariff policy of the government has been variable, while there has been a continuous, unbroken policy of non-interference by Congress with freight rates for a hundred years. Surely, in this grave matter, so interwoven with all the business of the country and so affecting their interests, the nation should move slowly and carefully, and the commission should exercise its saving powers to protect us from the evils of hasty action.

CORN is very scarce in this section, and it is said that Botetourt will have to "import" some of that staple article! Only last week we referred to the fact that our merchants are selling large quantities of "foreign" bacon. Can any agricultural community stand up under any such system as this?—Fincastle (Va.) Herald.

Whether any agricultural community can stand up under such a system or not, it is certainly a shame that such a county as Botetourt, one of the best counties in that splendid agricultural country—the Valley of Virginia—should purchase Western corn and bacon. Botetourt cannot offer the excuse of the cotton sections, because Botetourt raises no cotton. Its lands are remarkably fertile, producing magnificent crops of grain and grass, and yet it fails, according to the Herald, to raise even its own food-stuffs. Possibly the explanation is that the farmers sold their grain and bacon too freely last fall, and caused the deficiency in this way.

If you wish to keep posted on the progress of the South, read the MANUFACTURERS' RECORD. Price \$3.00 a year.

Great Activity in Railroad Building.

An era of activity in railroad construction is always a time of prosperity in iron and steel industries, and from these the good effects extend to all other lines of business. As has been repeatedly stated in the MANUFACTURERS' RECORD, 1887 promises to be a year of remarkable activity in building railroads. In the South, West and Northwest, track-laying is proceeding very fast. The rapid growth of the manufacturing interests of the South is stimulating the building of many new roads, and a very large number of short lines, branches and extensions of old roads, as well as many important new lines, are under construction, while plans for many others have been matured. In reporting the track-laying for the first four months of 1887, the Railway Review says: The evidence which was presented one month ago that the work of railway construction during 1887 is to be very large is fully supported by the returns of track-laying received in April. Our records now show that from January 1 to May 1 there have been laid in the United States no less than 1,564 miles of new main track on 65 different lines in 29 of the States and Territories. This is an addition of 524 miles during the last month, and shows a total which has never before been equalled during the same period, with the exception of the first four months of 1882, when some 2,300 miles of new track were reported. The total length of new lines for that year (1882) was 11,568 miles, by far the greatest mileage laid in any one year. During the first four months of 1886 our reports showed only 666 miles of track laid, although the total mileage for that year was about 8,200 miles. There have already been laid this year about three and one-third times as much mileage as was credited to the corresponding months of last year, and more than one-half as much as the new mileage for the entire year 1885. While the effect which the interstate commerce law will have upon new construction is still a matter of some doubt, we now feel warranted, after taking a survey of the entire field and noticing the great number of new enterprises either in progress or projected, in venturing the prediction that the complete record for the year 1887 will show an addition of at least 10,000 miles of new railway, with the possibility that it may reach 12,000 or 15,000 miles. Indeed, the probabilities now seem to indicate that the railway building during 1887 will exceed that of any previous year.

Of the 1,564 miles shown by our records more than one-half has been built in Indian Territory, Texas, Kansas and Colorado. Large additions are to be looked for in the next month or two in Dakota, Nebraska, Montana, Missouri, Wyoming, Oregon, Georgia, Alabama and Florida,

as well as in the States already named. Indeed, in nearly all of the Northwestern, Western and Southern States numerous extensions are under way. In the more northerly part of the country, where snow and frost have but lately disappeared, the work of track-laying has hardly begun, although, as has been suggested, extensive preparations have been made in large portions of the Northwest, and from this time until winter sets in every day will see the addition of many miles of steel track in States and Territories which thus far do not figure in the showing. In short, 1887 seems certain to pass into history as a year of extraordinary activity in railway building, and consequently of great activity and prosperity in the lines of industry which are intimately connected with that work.

UNDER the auspices of the Patrons of Husbandry, of Alabama, Tennessee, Georgia, North Carolina and South Carolina an Inter-State Farmers Encampment will be held at Spartanburg, S. C., from August 2d to 6th inclusive. The object of this gathering is mainly to bring the farmers of these five States together that by means of personal intercourse, an examination of the most improved farm appliances, and addresses upon the most important subjects relating to the advancement of agriculture, there may be found a stimulus to renewed exertions in the improvement of the farming interests of the South. The commingling of many thousands of farmers at such a place, where there will be so much to learn, must undoubtedly be productive of great good. The improvement of the methods of cultivation, the diversification of farm products, and many other things which would materially add to their prosperity, will be strongly impressed upon those who attend this encampment, if the plans of its managers are fully carried out. It is proposed to have extensive exhibits of farm machinery, and it is also desired that full displays of minerals of all kinds will be made, as it is thought that many Northern and Western people will attend for the purpose of studying the resources of the South. The MANUFACTURERS' RECORD heartily endorses such enterprises as this, as they serve to awaken the people of the South to a knowledge of their own resources and to encourage them to use to the best advantage the blessings that have been so liberally bestowed upon that section. A radical change in the methods of a very large proportion of Southern farmers is greatly needed, and this can be materially aided by gatherings of this kind.

As will be seen by reference to page 548, the Athens Mining & Manufacturing Co., of Athens, Tenn., have changed the date of their real estate sale to June 2. Attention is invited to their advertisement.

A MANUFACTURING METROPOLIS

Among the Mountains and Meadows West of the Mississippi.

A Peep at the Present, Peering Into the Past and Fathoming the Future of a Nineteenth Century City.

A Few Facts in Regard to that Store-House of Nature—Arkansas—and its Capital on the Banks of the Rolling River.

[Special correspondence MANUFACTURERS' RECORD.]
LITTLE ROCK, ARK., May 7, 1887.

The East has hundreds of cities in which hundreds of spires point to the skies, where on every day sees "progress, prosperity and plenty" written in the smoke which rolls from hundreds of towering chimneys; cities in which the whirr of wheels mingles in mad music with the never ceasing crash of commerce—where wealth comes and goes like the ebb and flow of the ocean's tide, but nowhere throughout all this land can there be found anything which comes so near the marvelous as is now being revealed within the borders of the State of Arkansas.

There nature has exhausted her every resource in storing up a wealth which has for centuries lain unknown and uncared for at the very doors of civilization. Indeed it is but such a short time since this State has been opened up to the world that its progress has been more than wonderful. But a few short years ago railroads were unknown there, and to-day they extend through the State in all directions, while dozens of new lines are now in progress. Cities have sprung up in the wilderness, and an inpouring tide of immigration has filled the fields with men who have sought a home in the bonnie South land, choosing the balmy breezes, the blooming bottoms and the fertile uplands of Arkansas in preference to all others.

As a sample of what this State is, a glimpse may be taken at the city of Little Rock, which site is in the midst of the very garden spot of the South, its foundation stones washed in the limpid waters of the rolling Arkansas, while upon the one hand, mountain peaks mantled with verdant forests hold out a friendly shelter from the Northern blasts, and on the other broad plains with woods of every variety extending their wind-tossed branches in friendly salute, stretch away to the gulf and to the far West. With such a kindly hand has nature endowed this city, surrounding it with inspiring sights and embowering it in sweet-scented flowers that it has been by visitors termed "the Queen of the Valley," while to its own people it is known as "the City of Roses," a name to which it has most just claim, not alone for those flowers which clamber over bower and branch, but for the rose buds which bloom in the fair cheeks of the beautiful women who call this place the home of their hearts.

However, it is neither the beauties of nature which abound in the State of Arkansas nor the nature of the beauties who live in Little Rock to which at present the world is giving its attention. Everywhere has been aroused a realization that in the South is to be found a wealth of resource, which until recently has never even been dreamed of, and everywhere it seems to be a well recognized fact that the acme of that wealth is reached in the State of Arkansas, while the advantages surrounding the city of Little Rock are looked upon as little less than marvelous. There is scarcely a section of the State which does not abound in minerals of all kinds from coal and iron to gold and silver, while everywhere the soil and climate combine to make it one of the most productive regions in America. The fruits and grains of Arkansas take first rank everywhere, and as a cotton State she stands among the

foremost. It is a miniature world which has been stored up within the borders of this State, embracing all climates, all soils, all countries and all peoples; and it is in the midst of this wonderful country that the city of Little Rock is located, with its front gazing over the Arkansas river to the waving forests of the North, while upon either hand stretch vast plains, verdure covered and forest bordered, with blue mountains mingling their mighty tops with the mist of morning, and with plains and savannahs to the South, all pouring their wealth into this their natural center.

In the past Little Rock has been hampered with many disadvantages, and the rapid advancement made since their removal shows most conclusively what must be the strength which yet lives undeveloped beneath the surface of this first progress. Already there are numerous manufactories, embracing planing mills, cooperages, cotton gin factories, furniture factories, machine shops, foundries, wagon factories, cotton-seed oil mills and cotton compresses. The various corporations in the city already are capitalized at \$6,208,000, the Little Rock Oil & Compress Company alone being capitalized at \$3,000,000. This mill is the largest in the South, and there is now in course of construction one of the oil mills of the Southern Oil Mill syndicate, which is to be located in the eastern suburbs of the city. All these advancements, in view of the fact that but a short time since Little Rock had but about 10,000 inhabitants and no railroads, go to show the progress she is making. To-day the census shows 34,000 population, while railroads diverge from the city in five different directions and packets ply the river both ways. There are eight new roads in progress, the building of five of which is assured within the next eighteen months, while the others will certainly be constructed shortly after.

With the river at its doors, with two magnificent steel drawbridges spanning the river and with its unsurpassed railroad facilities, it will be seen at a glance that Little Rock possesses superior advantages as a manufacturing point. The best and most abundant cotton in the South whitens the fields on all sides, while the breezes which fan the faces of the field hands and toss the lint about in the mills, comes scented with odors from the forests so near at hand that the rustle of the leaves falls softly on the ear, and the singing of the birds mingles with the noise of the mill.

With the cotton growing at one door and with the means of transportation at the other, there is little cause to wonder that this place should be looked upon as one of the best of manufacturing points, and when it is remembered that the same could be said of the manufacture of wooden ware, and the same of the various grains, then indeed can the world well be excused for exclaiming in admiration at the fair future which lies before this favored city.

The forests of Arkansas embrace scores of varieties, among which are poplar, ash, oak, hickory and gum, as well as numerous other kinds, equally valuable for manufacturing purposes. With these forests growing upon every side, with vast beds of minerals all about and with her fertile fields, Little Rock truly reigns in the midst of most proud possessions.

And the city itself is something to be proud of, with its broad avenues, its handsome houses, its magnificent public buildings and its constantly growing improvements. Most of the State institutions are located at Little Rock, and all have handsome commodious buildings, beautiful grounds, and all the latest appliances. The various public buildings are estimated at a value of \$2,062,000. There are thirty handsome churches, and the church property is valued at \$357,000. The public school property is valued at \$343,925, and there are 8,000 pupils enrolled. Among the most noticeable buildings in the State of Arkansas

is the Merchants Exchange which has just been erected in the center of the business portion of Little Rock, at a cost of \$27,000. It is handsome, substantial, and even elegant, showing the confidence which the people have in their city's future, for it was built by the merchants, and is the pride of their hearts.

With this city such as it has been shown, there can be but one course in the time to come, and that course lies on the road to advancement and prosperity. That the attention is wide-spread is shown by the work in the office of the Little Rock Real Estate Exchange, which is flooded with correspondence from all quarters of the globe. Thousands of letters of inquiry are received and the utmost care is taken in securing and giving the information requested. No exaggeration is used, for none is needed; the simple truth is more wonderful than a tale of fable or fiction.

Nature has blessed this place with every good gift, and the happy results are but awaiting the coming of who will to possess them.

The Basic Fight to be Continued.

PITTSBURGH, PA., May 9, 1887.

Editor Manufacturers' Record:

After five years of litigation in Court of Chancery the master reported in my favor that the injunction should be dissolved, and the bill dismissed at the cost of the Bessemer Steel Co. This was confirmed by the court. The court then referred the case back to the master with instructions to say why the patents in question should not be given to the Bessemer Steel Co. The master then made a supplementary report, citing each patent and the reason why they belonged to Reese, and should not be transferred to the Bessemer Steel Co. Judge Stow then made his decree: "The defendant should assign to the plaintiff all the patents and applications that are found by the master should be assigned and all the others found by the master should not be assigned, except patents 346,493—350,558 and No. 306 Exhibit." The decision in view of the evidence and of the master's report is simply inexplicable. I shall neither cry nor swear, but will appeal and await the decision of the Supreme Court. This decision of Judge Stow will send a chilling shiver through the industrial South, and especially in the Birmingham region, that will be very injurious, which I regret almost as much as I do the millions of dollars it takes off of me and gives to the Bessemer Steel Co. Hoping that the Supreme Court will reverse Judge Stow, and that we may yet rejoice together, I am, yours truly,

JACOB REESE.

Improvements at Fernandina.

FERNANDINA, FLA., May 2, 1887.

Editor Manufacturers' Record:

The Florida Town Improvement Company are now repairing and extending the iron dock, 330x130 feet, for use by Eppinger & Russell, large lumber dealers. Also adding to and remodeling the old steamship dock for lumber shipments. It has just completed and sold to ex-Gov. Geo. F. Drew a lumber wharf 230x200 feet. Has just leased its new extension of 150 feet to the Broome street lumber dock to Geo. W. Hipple & Co. The contractor has turned over to L. Bucki & Son their large lumber wharf. Fully 8,000,000 feet of lumber will be shipped from this port as soon as all docks are completed. The Florida Town Improvement Co. have now under lease to large lumber dealers 1,320 feet of dock room; private owners about 500 feet additional. The Creosote, Lumber & Construction Co. are making good progress with their large factories; estimated cost of works \$100,000. The F. R. & N. R. R. have just completed their large new warehouse and dock; dimension 425x100.

S. D. SWANN, Agent.

CONSTRUCTION DEPARTMENT.

WE PUBLISH, every week, a list of every new factory, of whatever kind, projected anywhere in the South; every railroad undertaken, and every mining company organized. This information is always fresh, and, by enabling manufacturers to correspond with the projectors of such enterprises before their supplies of machinery have been purchased, is of great value. Manufacturers will find it to their interest to read this department carefully each week.

ALABAMA.

Anniston.—The Anniston & Cincinnati Railroad Co. have let the contract to build 3 iron bridges between Anniston and Gadsden and a large iron bridge across the Coosa river at Gadsden, to the Atlanta Bridge & Axle Co., of Atlanta, Ga.

Anniston.—The Anniston City Land Co. will improve their electric light plant and put in a new 50 horse-power engine.

Anniston.—Negotiations are still pending with a view to the location of car and locomotive works, as previously reported, in connection with some enterprises already established.

Birmingham.—Underwood & Morris will erect a four-story building on Twentieth street.

Birmingham.—The Birmingham Hollowware & Enameling Co., reported last week as chartered, have organized with J. L. Watkins as president; T. Walton, vice-president and general manager, and R. P. David, secretary and treasurer. A site for the plant has been bought.

Birmingham.—J. H. Dunavant will move his carriage and wagon factory into a larger building.

Birmingham.—The Avondale Ice Factory, capital stock \$35,000, has been incorporated with T. H. Moore as secretary and treasurer and F. W. Knowles as manager. The company have their factory in operation.

Birmingham.—The Elyton Land Co. will not build a furnace as stated last week, but have decided to spend \$1,000,000 in erecting a large rolling mill and aiding the establishment of several manufactories. Negotiations are being made with parties to locate a stove foundry.

Birmingham.—H. L. Watlington and Charles Handy, previously reported as purchasing and to develop about 30,000 acres of coal land in Alabama, have with J. M. Parker, James P. Parker, A. H. May, William Cohen, James L. Harris and others, of New Orleans, La., incorporated the Jackson Coal & Coke Co., capital stock \$1,000,000.

Birmingham.—The Sloss Steel & Iron Co. have let the contract to build their two furnaces, previously reported, to Gordon, Strobel & Laureau of Philadelphia, Pa. They will cost about \$450,000. The capacity of each will be 125 tons. The contract for 150 beehive and 63 Thomas coke ovens has been let and 150 more ovens will soon be contracted for.

Birmingham.—The Birmingham Glass Works have been incorporated by Fred Sloss, Robert H. Pearson, Joseph H. Slaton and John M. Martin, of Birmingham, and Thos. C. Woodward, of Washington, D. C. The authorized capital stock is \$1,000,000. A site has been secured for extensive works.

Birmingham.—Lafayette D. Carroll wants estimates on a complete plant of machinery for manufacturing horse and mule shoes.

Brierfield.—The Brierfield Coal & Iron Co. will, it is said, erect a plant to manufacture steel plate for their nail factory. They

will build 12 additional coke ovens, and a short railroad to limestone quarries.

Bynum.—Barnwell & Huger, reported last week as purchasing machinery for a saw mill, are erecting 2 saw mills with a total capacity of 40,000 feet daily. They are also building drying kilns and about 4 miles of pole road.

Cross Plains.—A foundry will probably be erected soon. M. T. Moody can give particulars.

Cross Plains.—Arrangements are being made for the establishment of a coach factory. M. T. Moody can give particulars.

Cross Plains.—E. T. Henderson proposes to establish a sash and blind factory.

Decatur.—The Georgia Central Railroad & Banking Co., (office Savannah, Ga.) will extend their road from Carrollton, Ga., to Decatur, Ala.

Decatur.—It is reported that the Gunter's Mountain Coal & Coke Co. is being organized to develop coal lands near Gunter'sville.

Florence.—It is stated that the Florence Water Works Co., previously reported, will soon begin work on their plant.

Florence.—Mr. Nichols, of Greenville, S. C., will build a planing mill.

Florence.—James A. Andrews has contracted to build 11 miles of railroad.

Florence.—The King Iron Bridge Co., of Cleveland, O., have received the contract to build an iron bridge across Cypress creek to cost \$3,700.

Gadsden.—The Gadsden Hotel Co., James L. Tanner, secretary and treasurer, are receiving bids for building a four-story brick hotel.

Guntersville.—J. P. Robinson will develop limestone quarries.

Isbell.—A shingle and lathe mill is being built by Allen & Robinson.

Isbell.—T. L. Fossick, Sr. and Jr. will build a large stone mill.

Isbell.—A planing mill may be erected by a party from Mississippi.

Isbell.—Ogden Street is developing iron ore mines.

Leeds.—The Leeds Co., reported last week as incorporated, will start pressed brick works with a daily capacity of 30,000 bricks. The company is negotiating with other parties to start pressed brick works, one plant to have a daily capacity of 50,000 bricks and the other a daily capacity of 35,000 or 40,000 bricks.

Leeds.—The Leeds Lumber Co., capital stock \$10,000, has lately been organized and have their planing mill in operation.

Mobile.—The Progress Electric Light & Motor Co., reported last week as organized with S. S. Rubera, as president, have purchased the property of the Mobile Electric Light Co.

Mobile.—It is reported that a company has been organized to build ships.

Montgomery.—Josiah Morris will erect a fine building to be used as an infirmary.

Montgomery.—The Adams Cotton Mills are contracting for a building for their carding machinery. They are building an addition to their factory to put in warpers and slanders and expect to double their capacity soon.

Montgomery.—It is rumored that a \$100,000 stock company has been organized to develop stone quarries at Notasulga.

Morgansville.—George N. Gilmer is building a short railroad west from Cloverfield station.

Nectar.—J. L. Haire is rebuilding his gin lately reported as burned.

Oxford.—Pearson & Brock will, it is said enlarge their wagon and carriage factory at a cost of about \$20,000.

Prattville.—The cotton mills of the Prattville Manufacturing Co. has been purchased by a company to be known as the Prattville Cotton Mills. W. T. Northington is president, W. L. Ellis, vice-president, and Daniel Pratt, secretary and treasurer. They will repair the mill and put it in operation by September 1; capital stock \$125,000.

Sheffield.—T. W. Carter wants to purchase a 40 horse-power boiler and engine.

Sheffield.—The Sheffield Real Estate Co. have let the contract for 6 three-story brick buildings.

Sheffield.—The East Sheffield Manufacturing Co. are building extensive brick works.

Talladega.—The Talladega Gas Light & Water Co. will put some new machinery in their gas works.

Talladega.—A. Bingham & Co will double the capacity of their flour and corn mill. They are building a new saw mill near Talladega.

Talladega.—It is reported that the Talladega Iron Co., organized in London, Eng., about one year ago, has been reorganized and will soon begin developing their property. If true, George W. Chambers can give information.

Talladega.—A company has been formed to erect an electric light plant. The Talladega Land & Improvement Co. can probably give particulars.

Talladega.—Jacob Bros. are building a machine shop.

Talladega.—It is reported that a construction company with a capital stock of \$1,000,000, has been formed to build a railroad to Savannah, Ga.

Troy.—A company has been formed to manufacture brick.

Tuscaloosa.—J. J. Alston will build a three-story hotel.

York Station.—\$15,000 have been raised toward building a cotton factory.

ARKANSAS.

Bear.—Ryan Bros. are developing mines.

Bear.—Eldridge & Warner contemplate erecting a stamp mill.

Batesville.—The Batesville Telephone Co., capital stock \$5,000, has organized with J. C. Yancy as president.

Benton.—O. C. Atchinson will develop clay mines.

Dallas.—S. P. Miller & Co. are developing mines near Dallas.

Dardanelle.—It is reported that a machine shop and foundry will be established by W. F. Settle & Co.

Fort Smith.—The capital stock of the Fort Smith & Sulphur Springs Street Railway Co., reported last week as incorporated, is \$50,000. The directors are E. E. Bryant, W. R. Martin, P. O. Shea and others. W. T. Johnson is president.

Hot Springs.—Baxter & Hunt will erect a brick building to cost from \$10,000 to \$15,000.

Hot Springs.—The Hydro-Carbon Gas Co. has been organized, with L. D. Cain, president; John J. Sumpter, vice-president, and H. M. Rector, secretary and treasurer, and has purchased the right for State of Arkansas to manufacture the hydro-carbon gas, under patents of the Garland Gas Light Co.

Little Rock.—L. Anderson has purchased machinery for a saw and planing mill. The daily capacity is 80 M shingles and 30 M feet of lumber.

Little Rock.—Simon P. Hughes will receive bids until May 29 for erecting a brick building at the Arkansas Industrial University at Fayetteville.

Little Rock.—The contract for the brick work of the oil mill lately reported to be built by the Southern Cotton Oil Co., of Philadelphia, Pa., has been let to Noah Hamlet. J. C. Thralman has the contract for the woodwork.

Little Rock.—Fred. Hanger will erect a new cotton pickery.

Little Rock.—Louis Koers is overhauling and improving his carriage factory and building a two-story addition, 50x75 feet.

Little Rock.—Logan H. Roots and E. W. Kimball are purchasing iron ore lands.

Little Rock.—N. L. Adams, of Wichita, Kansas, will, it is stated, move his marble works to Little Rock.

Little Rock.—Thomas West and C. H. Munger, of Chicago, Ill., contemplate erecting a soap factory.

Morrilton.—The Methodists will build a church to cost \$12,000.

Prescott.—N. T. Richardson, A. E. Stanton and David Stule have chartered the Prescott Lumber Co., capital stock \$30,000, to manufacture lumber. Mr. Richardson is president.

Texarkana.—It is rumored that the St. Louis, Arkansas & Texas Railroad Co. (office, St. Louis, Mo.) will build machine shops and a hospital.

Van Buren.—A. L. Payne, of Richmond, Ind., has made a proposition to build water works.

FLORIDA.

Bartow.—George Lemoyne, of Orlando, previously reported as receiving the contract to build a jail, has assigned his contract to Thompson & Co.

Belmore.—A saw mill will be built by Burlington & Wilson.

Boca Grande.—Robert Wilson, of Paris, Texas, will establish a ship yard and is now purchasing machinery.

Bonifay.—A railroad is projected to Geneva, Ala., by the Bonifay Manufacturing Co. and others.

Bryceville.—The Methodist Episcopal Church will build a seminary.

De Funiak Springs.—It is reported that a street railroad will be built to Lake Stanley, 2 miles; also that a hotel will be built at Lake Stanley.

Jacksonville.—A palmetto fibre factory is being built by Stewart & Co.

Liverpool.—The cost of the hotel lately reported to be built by the Grove City Land Co., will be about \$30,000. Bids for erecting it will be received until June 1.

Liverpool.—The incorporators of the Boca Grande Railway Co., reported last week as chartered to build a railroad 50 miles long, are John Cross, John G. Webb, Ernest H. Sale, Frank H. Hafer, John W. Jackson and others.

Micanopy.—Mr. Montgomery and others are contemplating organizing a company to manufacture fertilizers.

Palatka.—D. A. Boyd is erecting a new saw mill.

Sanford.—The Catholics will build a church and a school.

St. Augustine.—E. E. Vaill will erect a large building.

St. Augustine.—A. A. Patterson will build a large brick addition to the Florida House.

Tallahassee.—Bills have been introduced in the legislature to incorporate the Suwanee Gulf Railroad Co., the Florida Midland Railroad Co., and the Georgia, Florida & Key West Railroad Co.

GEORGIA.

Athens.—It is stated that a gold mine will be developed by a Northern party.

Athens.—The Athens Water Works will probably be extended.

Atlanta.—The East Atlanta Land Co., previously reported, has been organized, with Joel Hurt as president. The company proposes to build an electric or dummy street railroad.

Atlanta.—The Empire State Electric Co., reported last week, have let the contract for erecting a building for their plant, to W. G. Newman & Co.

Atlanta.—A company has been formed to establish a branch factory of the Woven Cord Furniture Co., of Chicago, Ill. The secretary of the Atlanta Manufacturers' Association can give particulars.

Atlanta.—The contract to erect the Technological school building, previously reported, has been let to Angus McGilvray, at \$43,250.

Atlanta.—The contract to build the 70 miles of the Atlanta & Hawkinsville Railroad, previously reported, has been let to S. L. James. It is to be completed by January, 1888.

Augusta.—The John P. King Manufacturing Co. have added to their cotton factory 70 looms and 3,000 spindles.

Augusta.—The Georgia Construction & Investment Co., previously reported, have organized, with Robert P. Sibley as president.

Bainbridge.—\$50,000 has, it is said, been raised to build a bridge across the Chattahoochee river. If true, Russell & Brown can give particulars.

Brunswick.—Baumgartner Bros. have bought \$2,500 of new machinery for their sausage factory.

Brunswick.—A grist mill will be erected, a site having been purchased. There is talk of a lard refinery being erected. The mayor can probably give information.

Brunswick.—It is reported that a \$50,000 stock company has been formed to erect works to manufacture alcohol, rosin, etc., from wood. If correct, A. A. Gaddess can probably give information.

Cedartown.—The Chokee Iron Co. will build several hundred additional coke ovens.

Columbus.—C. A. Klink, I. Joseph, Samuel Eberhart and others have incorporated the Columbus & Gulf Navigation Co., capital stock \$25,000.

Columbus.—The city council have appropriated \$16,000 for a new school building.

Ellijay.—M. L. Cox wants prices of corn mill machinery.

Forsyth County.—Some machinery has been erected at the Strickland gold mine, by A. H. Moore.

Girard.—The capacity of the Girard Knitting Factory is being doubled.

Kingston.—Gaines & Lewis will refit their flour mill with roller machinery and want estimates on machinery.

Macon.—R. K. Hines wants information as to the cost of dummy engines and the work they can do. He wants to buy rails and cars for a street railroad.

Macon.—The name of the \$500,000 construction company recently reported to be organized to build the Macon & Florida Air Line Railroad, by H. J. Lamar and others, is the Macon & Florida Construction Co. Will receive bids until June 6, for grading and trestling and furnishing cross-ties for the Georgia, Southern & Florida Railroad from Macon to Valdosta, not already contracted for.

Macon.—Jesse W. Starr, of Philadelphia, Pa., has asked for permit to build gas works.

Marietta.—The Baptists will build a \$5,000 church. W. J. Hudson can give particulars.

McRae.—Bids for erecting a court-house will be received until June 6, by John F. McRae.

Mountaintown.—Crawford & Ratcliffe will buy some new machinery for their flour mill.

Perry.—A grist mill is being erected by C. C. Duncan.

Rockmart.—The Georgia Ore Co. will erect two lime kilns.

Rockmart.—A limestone quarry will be opened by Richards & Cook.

Savannah.—The Union Society will erect a 3-story brick building at a cost of \$20,000.

Savannah.—It is probable that a stock company will be organized soon to build a large hotel.

Savannah.—The Southern Cotton Oil Co., of Philadelphia, Pa., are selecting a site for their oil mill previously reported. The daily capacity will be 150 tons of seed.

Savannah.—Members of the Catholic Library Association will organize a \$25,000 stock company to build a hall.

Savannah.—The Pioneer Steam Brick Co., capital stock \$15,000, will be incorporated by John J. McDonough, Samuel P. Hamilton, John C. Rowland, J. H. Estill, P. J. Fallon and others. They have built brick works 7 miles from Savannah, with a daily capacity of 20,000 bricks.

Shiloh.—Joseph Brand has sold his mica mine to parties who will develop it.

Tallulah.—W. B. Thomas has secured control of 21 miles of railroad from Cornelia to Tallulah, and will build an extension from Tallulah to Marysville, Tenn. It will be known as the Tennessee, Carolina & Georgia Railroad.

Watkinsville.—Proposals for building a court-house will be received until May 27, by S. D. Hardigree.

Waynesville.—A saw mill is being erected by W. M. Wiggins.

Waynesville.—Robert J. Moyer is building 2½ miles of tram road.

KENTUCKY.

Ashland.—The Norton Iron Works, Ashland, Ky., previously reported as receiving bids for erecting a steel plant, will soon contract for the plant.

Bellevue.—G. R. Harms, Adam Smyrl, John H. Barker, S. C. Reeves, George E. Platts and others have organized the Bellevue Natural Gas & Oil Co. The capital stock is \$3,000.

Covington.—Clemens Hellman will rebuild his sash factory reported last week as burned.

Covington.—A. Greer Simrall is negotiating for the sale of 7,000 acres of mineral lands for \$100,000 to the American Association, (limited) London, Eng.

Frankfort.—It is stated that a furniture factory will be started.

Freedonia.—M. M. Dollar & Son will refit their flour mill with roller machinery.

Harrodsburg.—The Louisville Southern Railroad Co. (office, Louisville,) will build machine shops.

Henderson.—Some new machinery has been added to the Henderson Cotton Mills.

Hopkinsville.—J. H. Allen, of Mannington, Ky.; Thomas Parks, S. R. Sanford, T. W. Crutcher and C. R. Handy, Nashville, Tenn.; and M. C. Forbes, E. G. Sebree and William Cowan, of Hopkinsville, have organized the Hopkinsville Water Works Co. and Hopkinsville Street Railway Co.

Louisville.—Joseph Pollock, of Vincennes, Ind., has leased and is improving an old flour mill on Baxter avenue.

Louisville.—J. G. Straub has purchased roller flour mill machinery.

Louisville.—The building reported last week as to be erected by J. M. Clark & Co. will be used as a pickle factory. The daily capacity will be 50 barrels. The building will be three stories, 44x105 feet.

Louisville.—A company is being formed to manufacture iron by the Pickett process.

Louisville.—John G. Houston, A. S. Colyar and Theodore Plummer, of Nashville, Tenn.; George Selden, of Erie, Pa.; D. T. Porter, James Phelan and E. F.

Adams, of Memphis, Tenn.; and W. B. Haldeman and C. D. Pierce, of Louisville, and others, have incorporated the Grand Rivers Coal, Iron & Railroad Co., with an authorized capital stock of \$20,000,000. The company have purchased large tracts of mineral lands in Southwestern Kentucky, which they will develop, and will start a town to be called Grand Rivers. John G. Houston has been elected president; Theodore Plummer, secretary, and C. D. Pierce, treasurer.

Mannington.—Coal mines are being opened by the St. Bernard Coal Co.

Owensboro.—The report last week that Packard & Grover, of Brockton, Mass., will move their shoe factory to Owensboro is premature. They are considering the matter.

Scottsville.—Thompson & Davidson have erected the planing mill reported last week.

Winchester.—A tobacco factory is being erected on Main street by H. G. Bush and Z. H. Trout.

Winchester.—J. W. Martin & Bro. will erect a steam laundry on Highland street, 20x60 feet.

LOUISIANA.

Ascension Parish.—Oliver Beirne is erecting some new machinery at his sugar mill.

Boyce.—A stock company is being organized to develop a gold mine on the lands of R. S. Cameron and L. McNeely.

Crowley.—The police jury have annulled contract for frame court-house, and will build of brick, to cost \$10,000.

Farmerville.—W. P. Chandler will rebuild his machine shop and foundry, grist mill and flour mill reported in this issue as burned.

Gibbsland.—J. D. Beardsley, of Washington, Ark., has contracted to build the Louisiana North & South Railroad from Gibbsland to Homer.

Iberville Parish.—An extra three-roller sugar mill and bagasse burner is being erected on the Eliza plantation of Mr. E. Lefevre.

New Orleans.—A. E. Booth, of Baltimore, Md., is investigating the advantages of New Orleans, with a view, it is reported, of establishing an oyster canning factory.

Opelousas.—The capital stock of the company reported last week as to be organized to establish a rice mill, oil mill and cotton compress, by Thomas H. Lewis and others, will be \$100,000.

St. Charles Parish.—H. A. Lessassier and James Teller have each erected some new machinery at their sugar mills.

Terrebonne Parish.—H. C. Minor has purchased some new machinery for the sugar mill on his Southdown plantation.

MARYLAND.

Baltimore.—The contract to build a truck house corner of Hanover and Ostend streets has been let to Lewis C. Smith at \$9,285.

Baltimore.—The Baltimore & Patuxent Telephone & Telegraph Co. has been organized with Samuel Burns as president; J. Southgate Lemon, secretary, and John Turnbull, treasurer. The capital stock is \$10,000.

Baltimore.—Michael T. Dorsey will rebuild his Highlandtown Chemical Works, reported in this issue as burned.

Baltimore.—A. L. Gorter has purchased ground at the corner of Charles and Eager streets, and will, with Robert Garrett and others, build a hotel to cost several hundred thousand dollars.

Baltimore.—Tyler & Bros. will put a new 40 horse-power boiler and engine in their cracker factory. John A. Owens, north High street, will put in a 15 horse-power boiler and engine, and W. J. Clendenin will put in a 25 horse-power boiler and engine.

Baltimore.—Geo. Bauernschmidt is building 5-story addition to his brewery for an ice factory.

Baltimore County.—A. L. Gorter, Baltimore, has purchased site at Lake Roland for a club-house reported to cost \$50,000, on which work is to be commenced shortly.

Calverton (P. O., Baltimore).—Steinacker & Harris have received the contract to erect the school building previously reported, S. P. Demuth & Son having withdrawn their bid.

Flintstone.—Messrs. Laing and Hopkins, of Cumberland, will open and develop a silver and lead mine.

Golt's.—D. H. Kent is erecting a saw mill near Dulany's.

Oakland.—The steam laundry at the Oakland Hotel, burned last year, is being rebuilt and enlarged.

Oakland.—Work on the Skipnash branch of the Baltimore & Ohio Railroad has been resumed, and it is reported that the road will be extended to Confluence, Pa.

Watervale Station (P. O. Belair).—William H. Waters has put some new machinery in his flour mill.

Washington.—William Ludlow, engineer commissioner, will receive proposals for building terra cotta, brick and concrete sewers until May 18.

Westminster.—A 3-story addition, 40x85 feet, is being built to the Westminster College.

MISSISSIPPI.

Enterprise.—John Kamper contemplates erecting works to manufacture wood alcohol and charcoal.

Fulton.—P. Cates lately reported as to start a lumber mill, wants prices on smokestacks, 14 inches in diameter, water and steam gauges, saw mill frames, etc.

Greenville.—It is reported that the Greenville Water Works Co. has been formed by F. L. Bates and others, and the Greenville Gas & Electric Light Co. by F. L. Bates, James E. Negus, J. M. Jayne, James Burke and others.

Greenville.—Archer Harmon, of Louisville, Ky., has made a proposition to build gas works.

Hattiesburg.—Robinson & Co. are erecting large brick works.

Meridian.—The East Mississippi Cotton Mills have purchased and put in some additional machinery.

Muldrow Station.—A creamery will be started. John Hudson can give information.

Pass Christian.—W. H. Hardy, president Gulf & Ship Island Railroad, previously reported, states that he has purchased rails for 20 miles more of the road and that by fall arrangements will be completed for continuing the road from Chicago to the Gulf.

Slate Spring.—G. W. Nason, of Atlanta, Miss., and others are interested in the cotton factory previously reported as projected.

NORTH CAROLINA.

Asheville.—Morris & Shanks have received the contract to erect the works for the Asheville Gas Co., previously reported.

Catawba.—The Monbo Manufacturing Co., capital stock \$37,000, has been organized with W. D. Turner, of Statesville, as president, and C. L. Turner, Monbo, secretary and treasurer. The company have repaired the Long Island Cotton Mill at Monbo and will put it in operation.

Charlotte.—A 40 horse-power hoist has been erected at the Russell gold mine.

Fayetteville.—N. H. Smith desires correspondence with manufacturers of machinery used in wood dish factories.

Foust's Mills.—The Enterprise Manufacturing Co. have put additional machinery in their cotton factory.

Gaston.—Spence & Hull have started a carriage factory.

Greensboro.—The Thompson-Houston Electric Light Co., of Boston, Mass., will erect a plant. C. F. Thompson will be manager.

[CONTINUED ON PAGE 538.]

Electric Street Railways.

The usefulness and value of electricity is becoming more apparent every day, as is demonstrated by frequent discoveries and many practical inventions, one of the most important and recent uses being the success-

removed from the top. The machine is extremely simple, and can be taken apart in a few minutes. All parts are accessible, so that it is easy to keep everything in good trim. In the electric motor, as seen, there are two pairs of commutator brushes, and, by means of a hand lever, two parallel bars

running slow—that is, to turn the handle down towards the horizontal line of the center of the motor. One other advantage of the Van Depoele Rheostatic Motor is the ease with which the car is controlled. Whenever, for instance, it is necessary to go up hill, all that has to be done is to let the current pass through the rheostatic coils until the top is reached. The extra magnetism thus produced in the motor will give a much stronger pull and bring up the load with ease, although at a reduced speed, so that with this motor it is unnecessary to use a variable speed gearing, the governing of the motor being entirely electrical instead of mechanical.

Their contract with the Capital City Street Railway, of Montgomery, to equip the Capital City Street Line, a distance of one mile and a half, with electrical apparatus, was with the agreement that should the system prove satisfactory, the company were to contract with them for the equipment of their entire road.

This road has been running without a hitch or stoppage, and the street railway people are so well pleased with its success that they have contracted with them for the whole equipment of their line. The system used here is an overhead wire, electricity being conveyed to the motor by means of a cable suspended from the traveler, a return

going up grades to take on passengers without the least trouble, it is said.

The road, when completed and fully equipped, will have a 200 horse-power generator and twelve motors. The engines and boilers are being especially constructed for the railway company, and the station and car barns located conveniently in the center of the city. All will be ready early in 1887.

The electric street cars are already running on a dozen different lines in the United States and Canada. Among the cities that have them are Baltimore, Detroit, Port Huron, Appleton, Wis., Montgomery, Ala., and Scranton, in this country; and Windsor and Toronto, in Canada. These lines, it is stated, are all running successfully—that is to say, they run more cars at a greater speed with as much or more safety, and at less expense than street car lines operated by horses or by cables. The actual expenditure per car per mile is claimed to be from one-fourth to one-half that of the horse railways. The speed is much greater. The manufacturers of this motor say: "The expense at the beginning—for 'plant'—is no greater than for a new team of horses for each car, and not nearly so much as for a cable conduit. These facts are decisive in favor of the electric motor. The question to constructors heretofore has been one of dollars and cents. Now that problem is solved, and it only remains to improve and perfect the appliances already in use, to generate greater speed, and at the same time keep the motor under perfect control, and to get over small but numerous local difficulties that obstruct the way in different cities. The electric motor is the motor of the future for street railways, and that future is not very distant."

CORRESPONDENCE relating to the manufacturing, mining, lumbering and all other material interests of the Southern States is solicited. Reaching so many capitalists in all parts of the United States seeking profitable investment in the South, the MANUFACTURERS' RECORD offers an excellent chance for the people in that section to place the advantages of each locality before those likely to be interested. We will take great pleasure at all times in telling what has already been accomplished in the South, and showing up the opportunities of doing still more.

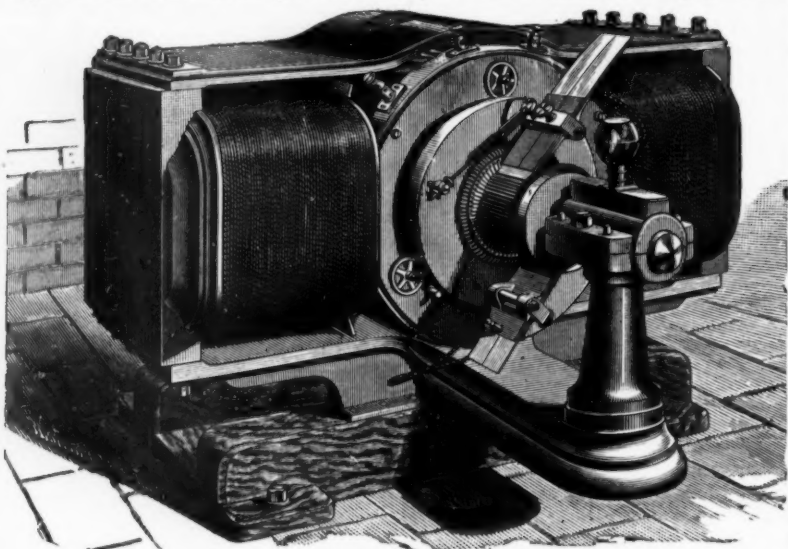


FIG. 1.—VAN DEPOELE ELECTRIC GENERATOR.

ful application of electricity in developing motive power to propel street cars, which are thus easily, almost noiselessly, run at a rapid rate of speed on nearly all kinds of grades in an entirely satisfactory manner.

We are indebted to the manufacturers of the Van Depoele Electric Railroad System for the following description of their system, which will be found interesting:

The Van Depoele Electric Railway System is the invention of Charles J. Van Depoele, the electrician of the Van Depoele Electric Manufacturing Company. He is also the inventor of the Van Depoele Electric Light System, a system of telferage, electric mining machines, drills and numerous other electrical apparatus and machinery.

As early as 1874, while Van Depoele was engaged in Detroit experimenting with electric generators, motors, etc., it occurred to him that trains of cars, and even ordinary street cars, could be run by electricity. This he explained to many of his friends, who received it with some skepticism. On many occasions, however, the transmission of power by electricity was exhibited by him in his shop in Detroit, running an ordinary rip-saw to saw lumber, and in other ways demonstrating the power of the electric motor. On many occasions the belt of his 10-horse-power engine was disconnected from the main shaft driving the machinery, and the engine was made to drive a large dynamo, which drove another dynamo, belted as a motor to the main shaft in the shop. As soon as the engine was started, and the generator or dynamo began to get up some speed, the current generated by it, and transmitted from it by means of two wires to the motor, the motor started up immediately, increasing or dropping its speed with the increase and decrease of the speed of the generator.

Fig. 1 shows the Van Depoele Electric Generator, as made in sizes from 1 to 60 horse-power. Any number of these machines can be coupled up and run together so as to generate any amount of power desirable. By connecting ten machines of 60 horse-power together an aggregate of 600 horse-power can be generated. In this system of coupling up all the generators are excited by one separate exciter, producing an equal field of force in all the machines, so that the armatures revolving each in their own field will all produce the same electromotive force, and can thus be all coupled up together, remaining all independent of their field circuits.

Fig. 2 shows the Van Depoele Electric Motor as it actually is, the switch box being

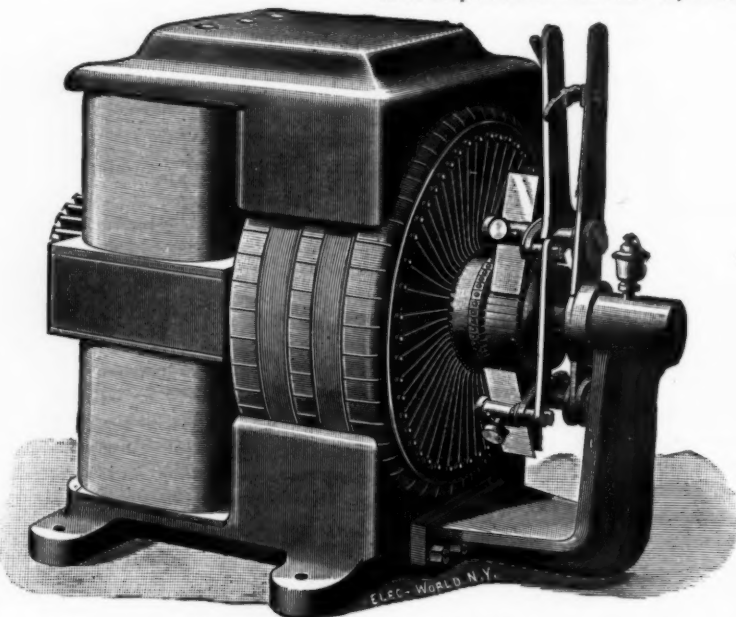


FIG. 2.—VAN DEPOELE ELECTRIC MOTOR.



VAN DEPOELE ELECTRIC RAILWAY AT MONTGOMERY, ALA.

are made to place either one or the other pair upon the commutator, thus enabling the operator to run the motor either back or forward. If it is desired to run fast, this can be accomplished by turning the main handle higher up to the vertical, and the reverse for

circuit being made through the rails. The weight of the cars are 3,500 pounds, and of the motors about 700 pounds. The grade for a long distance is over seven per cent. They carry as many as forty people on these cars, and the cars are stopped and started

ADVERTISERS wishing to reach the manufacturers of all classes, mining companies, steel, iron and hardware dealers of the entire South, cannot find a better medium than the MANUFACTURERS' RECORD.

The Carter Filter and Cooler Combined.

The importance of filtering water used for drinking and culinary purposes is constantly becoming more generally appreciated. The accompanying illustrations give an inside and outside view of the Carter filter and cooler combined. This filter is constructed of stoneware, and hence cannot rust, rot, wear out or corrode.

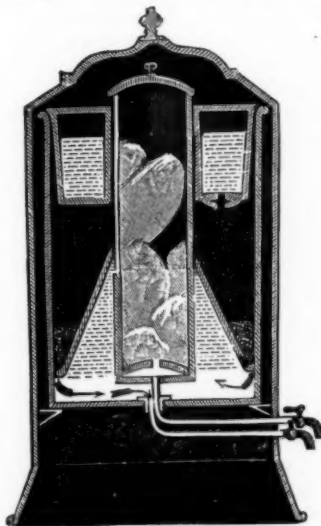
The ice chamber extends through the center and imparts its temperature to the filtered waters surrounding it, while it is impossible for the melting ice to enter the



OUTSIDE VIEW.

chamber containing the filtered water. The impurities of the ice are absolutely excluded from the water used for drinking or culinary purposes. The products of the melting ice are drawn by a separate faucet, with removable key attachment to prevent mistakes. The inner position of the ice chamber makes a large saving. The ice chamber is Britannia metal—absolutely non-corrosive.

A great depth of filtering material is gained by the central position of ice chamber and water reservoir, and their circular form makes the filtering chambers ring-shaped, admitting of the most perfect packing for filtering purposes. The central



INSIDE VIEW.

position of the filtered water also protects it from the action of the air (only enough being admitted to prevent a vacuum) and thus preserves the water sweet and pure for any length of time.

The Carter patent sponge cup, which has been in use in this and other filters for several years past with excellent results, forces all the water through the sponges—it cannot pass around them. All mineral and organic matter forming sediment is thus retained in the sponges, and the water enters the filtering bed perfectly strained, leaving the purifying only to be done by the filtering material. This important feature prevents

clogging and renders frequent repacking unnecessary. The sponges are easily removed for cleansing to insure a regular flow of water.

It is simple in construction, and readily accessible for repairing or repacking, as the filter pan is detached and easily removed. Only the best white gravel—Rockaway sand—and expressly prepared filtering charcoal are used, and first-class materials are employed throughout, producing a thoroughly reliable and highly ornamental article for any dining-room. In appearance it is handsome and attractive. A metal case encircles the outside of the stoneware receptacle. This is firmly cemented to the stoneware, double walled and dry packed, reducing the temperature of the water and forming an ornamental exterior for the filter. The manufacturers are Carter & Bright, of Lockport, N. Y.

The Allan Hose Coupling.

We present an illustration of a new hose coupling which is patented by a gentleman



FIG. 1.

whose experience in retailing garden hose has shown him the annoyance and expense caused by the loss of washers and leaks in



FIG. 2.

coupling. This coupling has a conical bearing compressing a gum washer securely held in place by a beaded head fitted in a groove



FIG. 3.

of thimble piece. The cuts show the parts separated, the smallest being the cone-shaped gum washer. The cone-top bushing piece is



FIG. 4.

screwed on the hydrant or street washer but once and left there permanently, which changes the water outlet so that the other

coupling will fit. In outward appearance the whole is very similar to the old-style coupling, and its use is precisely the same. It screws on just the same way, and a tight joint can always be had. These couplings are for sale by Mr. Wm. C. Codd, 2010 and 2012 Aliceanna street, Baltimore, Md., who will quote price and discounts on application.

The Sampson Cork Puller.

The Sampson Cork Puller herewith illustrated is made by the F. F. Adams Co., of Erie, Pa. It is intended to be attached, as indicated, to a table, shelf or other convenient fixture, and consists of a cylinder through which a corkscrew worked by a crank passes, the cylinder being moved up or down by a rack and pinion operated by a lever shown. The bottle from which the cork is to be taken is held in the left hand and pressed into the mouth of the machine, thus also pushing the screw up, as represented in the cut. With the right hand the screw is then turned down as far as the handle will go, making it to rest on the top of the cylinder, the bottle being meanwhile held firmly up into the mouth of the ma-



THE SAMPSON CORK PULLER.

chine. An upward motion of the lever extracts the cork. The removal of the cork from the corkscrew is accomplished by turning the screw out while the lever is still up, and when the screw is disengaged from the cork a downward motion of the lever throws the cork out, and the machine is ready for action again. The advantages of this article for the use for which it is designed are referred to by the company as follows: That there is no danger of breakage; that in thus pulling the cork the strain is on the strongest part of the bottle, while with a corkscrew it is on the weakest part, and that the contents of the bottle are not agitated, while reference is made also to its simplicity, ornamental appearance, efficiency of operation and durability.

MANAGERS of mills, factories, furnaces, mines, etc., and parties starting manufacturing enterprises, and needing machinery or supplies of any kind, will find it profitable to consult the advertising columns of the MANUFACTURERS' RECORD. Its pages contain names of the best houses in the country among manufacturers of and dealers in machinery and mill supplies.

MINING NOTES.

By T. K. BRUNER, Raleigh, N. C.

THE YADKIN MINING & MILLING CO.

The Yadkin Mining & Milling Co. have their works located at Salisbury, N. C. They consist of a complete outfit of mining and milling machinery, crushers, pulverizers, &c., and a plant of the Mears' system of chlorination works. They have a capacity for handling a large amount of ore per day, and are now operating on custom ores. They propose to either buy ores outright, or work them for so much per ton, according to the amount of work to be done. The charges are remarkably low, and, considering the question of freights, it is decidedly economical to ship ores to that point, not only from stations in North Carolina but from all points South.

The works are under the direct superintendence of Prof. John Jacobs, a practical metallurgist and mining engineer, well and favorably known in North Carolina. The fact that he has charge will inspire confidence in the enterprise.

At present they are working on sulphide ores in Randolph county, and arrangements have been made for treating the rich sulphurets from the Isenhour mine, in Cabarrus county.

NATIVE COPPER.

Mr. Thos. R. Miller, sheriff of Ashe county, reports the finding of native copper on New River, in that county. The find was made from surface specimens of native copper, which were in various size nuggets, and lay scattered on a hillside. A search resulted in discovering the source, which gives evidence of furnishing a continuous

supply of high grade cuprififerous material. A portion of these mineral lands have already been taken up by parties who propose to develop the veins.

WELBURN HILL MINE.

The Welburn Hill gold mine, a few miles south of Murphy, N. C., and near the Georgia State line, is to be reopened and worked by a company of Chattanooga capitalists recently organized for that purpose.

CONCORD MINE.

The Concord mine, in Stanly county, *see* Crowell, of same fame, is still engaging the attention of interested parties. A small force of hands are employed. They are now clearing the "Bird Nest Shaft." This is unfortunate naming, since few things are so barren as a last year's bird nest.

THE ISENHOUR MINE.

This mine is in Cabarrus county, and is verifying the predictions made in these columns more than six months ago, to the effect that if the property is honestly and economically managed it would become a constant and reliable producer. For five or six months a small amount of work has been going on, and always at a profit. Last week the superintendent brought to Salisbury and

turned over to the owners more than 300 pennyweights of gold, the result of the last week's run on a one-horse Chillian mill. The only ore worked on this mill is the surface or brown ore, found within a few feet of the surface, which is thrown out in developing the main vein on the property. A few feet from the surface the miners encounter the heavy sulphide ore, which is the true source of the auriferous wealth of the mine. These sulphides are concentrated for shipment and are sent to the Yaddin Mining & Milling Co., at Salisbury, for treatment. These concentrates run to \$50 a ton and upwards to \$80, and even higher. The soft brown ores found near the surface are worked in the primitive way indicated, and pay well, considering that the expense for manipulation is but a few dollars per day. This property will pass, sooner or later, into hands that are able to mine it on a scale commensurate with its resources.

BREWER MINE.

The Brewer gold mine is in Chesterfield county, S. C., and on the waters of Lynch river. The property consists of 745 acres of land, part of which has been worked for surface gold, and with some considerable success. The deposit seems to be a great mass of low grade auriferous material, decomposed and disintegrated, and is mined in open quarry. The deposit is 800 yards wide, and it is estimated that there are no less than four million tons of this material in sight; the average value in gold is placed at four to five dollars to the ton.

About one year ago the placer work was discontinued and they began to quarry the ores for treatment on stamp mill. A small mill was built, and the successful treatment of the ore has so encouraged Mr. E. Motz, the superintendent and owner, to go into this kind of milling on a large scale. He will erect this season an 80-stamp mill and increase the capacity of the other machinery to correspond. At present he is working only 20 hands.

Railroad News from Fort Smith.

[Special correspondence MANUFACTURERS' RECORD, FORT SMITH, ARK., May 3, 1887.]

There have been three new lines of railways chartered in Fort Smith, all of which have filed their acceptances of terms upon which their franchises were granted. The Belt Line, capital stock \$100,000. President, Mr. Kelly. The Sulphur Springs Line, capital stock \$50,000. President, W. J. Johnson. The Fort Smith & Van Buren Line, which runs from the cemeteries through the city to Van Buren, a village of 2,500 people, 4½ miles distant. Capital stock \$50,000. President, Thos. H. Marcum.

Jay Gould or his Missouri Pacific system has just entered into a written agreement with this city or its people to construct a railroad and highway bridge across the Arkansas river at the foot of Rogers avenue, in consideration of \$75,000 worth of property they have bound themselves to secure for the use of the Kansas & Arkansas Valley Railroad and the Fort Smith & Southern Railroad. Work is rapidly progressing on both roads. One goes northwest towards Southern Kansas, the other in the direction of New Orleans.

Work is progressing on the two court-houses, federal and State, also on the federal jail. The canning factory is under way and it is about to have an evaporating attachment. Several hundred houses are in process of construction, and it is estimated that at least a million dollars worth of buildings will be erected here within the year.

W. M. FISHBACK.

CROSSVILLE, TENN., May 2, 1887.

Editor Manufacturers' Record:

I intend to put in planing and grist mill machinery, but it is on small scale. I expect also to put in a shingle mill.

W. J. ANDREWS.

[CONTINUED FROM PAGE 535.]

Prosperity.—W. K. Jackson will build a new flouring mill.

Salem.—S. T. Pierce has started a chair factory.

Salisbury.—Foard & Rice are increasing the capacity of their tobacco factory and have added machinery to manufacture smoking tobacco.

Southern Pines.—C. J. Eaglesfield contemplates erecting brick machinery.

Stanly County.—Some new machinery is being erected at the Heathcock gold mine.

Wilmington.—A stock company will probably be organized to establish a steam cracker factory.

SOUTH CAROLINA.

Anderson.—Harrison Tucker wants machinery for rice and corn mill.

Bennettsville.—A company is being organized to build a cotton factory.

Bishopville.—P. G. Bowman, Jr., has purchased machinery to start a broom factory.

Cheraw.—The Atlantic Coast Line (office, Wilmington, N. C.) contemplates building a branch railroad to Chesterfield.

Cheraw.—A company will probably be organized to start a canning factory.

Columbia.—M. A. Markley and William Ancker will erect a hosiery factory at the State penitentiary.

Greenville.—There is talk of another cotton factory being built.

Laurens.—Brick works will be established soon.

Prosperity.—The gin of Wheeler & Mosely, reported last week as burned, will be rebuilt.

Union.—T. L. Harnes, Archie R. Stokes and others will organize a company to build a cotton factory. The capital stock will be not less than \$150,000.

Walhalla.—R. M. Richardson will rebuild his saw and planing mill reported in this issue as burned.

Walhalla.—The contract to extend the Blue Ridge Railroad from West Union to Walhalla, has been let to Kaufman & Sons.

Williston.—It is reported that new machinery has lately been put in the Maverick Cotton Mills.

TENNESSEE.

Bristol.—Joseph R. Anderson will build a hotel corner of Main and Fourth streets.

Camden.—A flour mill is reported to be erected.

Columbia.—W. A. Smith will establish a jewelry manufactory.

Chattanooga.—James Gifford has erected a corrugated iron-roofing factory.

Chattanooga.—It is stated that C. W. Caryl, of Chicago, Ill., will start a factory to manufacture fire apparatus.

Chattanooga.—Eugene Zimmerman, of Cincinnati, Ohio, and associates have completed the purchase of the property of the Soddy Coal Co., and will organize the Soddy Coal, Iron & Railway Co. with Mr. Zimmerman as president, to develop the property. The new company will erect a blast furnace and additional coke ovens and double the output of their mines.

Chattanooga.—The Lookout Mountain Incline Co., previously reported, have organized with W. R. King as president; H. F. Temple, vice-president, and C. Woodworth, secretary. It is said the company will build a large hotel on Lookout Mountain.

Chattanooga.—Burgland & Shead, of Defiance, Ohio, manufacturers of wooden packing pails, it is reported, contemplate moving to Chattanooga.

Daisy.—Mansfield & Murphy have purchased new saw-mill machinery.

Daisy.—H. J. Springfield will, it is reported, move his saw mill to Daisy.

Elora.—W. H. Morgan has added a grist mill to his saw mill.

Gallatin.—The Gallatin Chair Factory will shortly build a new and larger factory.

Gallatin.—McLaren & Cantrell will erect a carriage factory for W. L. Baker.

Johnson City.—A sash and door factory will be started by W. J. Haney.

Johnson City.—D. G. Colson, of Knoxville, has secured 6¼ acres of land for the purpose of establishing manufactories.

Johnson City.—A 50-barrel roller flour mill will be built by H. A. Clark, of New York. A site has been selected.

Johnson City.—The Johnson City Enterprise Club are negotiating with parties for the location of a stove foundry.

Knoxville.—The Knoxville Ice Co. are, it is reported, putting in some new machinery.

Memphis.—The First Methodist Episcopal Church will erect a large stone building corner of Second and Poplar streets, to be used as a church and school. Plans have been prepared by Jacob Snyder, of Akron, O.

Memphis.—J. N. Oliver will erect a five-story building on Oliver street, to cost \$60,000, and J. C. Neely will erect two buildings on Union street, to cost \$12,250.

Moorland, Sumner County.—A whiskey distillery has been started by C. T. Duffer.

Morristown.—The Morristown Mill Co., reported last week as putting new machinery in their flour mill, will build an elevator of 50,000 bushels capacity.

Morell's Mills.—The McPherson gold mine has been leased by a company who will at once erect machinery to develop it.

Murfreesboro.—N. C. Collier will receive proposals for building a church until May 30.

Nashville.—The West Nashville Brick, Tile & Terra Cotta Co., capital stock \$30,000, has been organized with J. L. Valentino as president; L. H. Davis, vice-president; George Rosenheim, treasurer, and A. C. Wilkerson, general manager. Works will be built at West Nashville.

Nashville.—The Lanier Mill Co. will build a \$9,000 brick warehouse.

Newport.—Mr. Marshall, of Steut & Marshall, Knoxville, have organized a company to build an organ factory. Ground has been purchased.

Nashville.—A stock company is being formed to manufacture terra cotta ornaments.

Nashville.—Robert Thompson has organized a company to manufacture excelsior and wants to purchase machinery.

Nashville.—A \$100,000 stock company is being organized by L. B. Kenedy, of St. Louis, Mo., and others, to establish a factory to manufacture pressed brick machines.

Nashville.—Samuel J. Keith is enlarging the Commercial Hotel at a cost of about \$15,000. First floor of addition will be occupied by Saratoga Steam Laundry, which will enlarge its capacity.

South Pittsburg.—An ice factory will probably be erected. The South Pittsburg City Co. can give information.

South Pittsburg.—A steam laundry is to be erected. The South Pittsburg City Co. can give particulars.

South Pittsburg.—The Sequatchie Coal & Iron Land Improvement Co., reported last week as chartered by James M. Head and others will build two furnaces and coke ovens, and open mines this year.

Tullahoma.—The Methodist Episcopal Church South, the Christian Church and the Cumberland Presbyterian Church will, it is said, each erect a new church during the summer.

Union City.—The Union City Gas & Electric Light Co. has been chartered.

Williamsburgh.—A. J. Kuksey will, it is said, develop a quarry.

TEXAS.

Abilene.—A large cotton ginney is to be built soon.

Beaumont.—The capital stock of the company reported last week as organized to build water works is \$30,000. The directors are W. A. Fletcher, V. Wiess, H. Solinsky, J. L. Keith, J. J. Crichton and others.

Boerne.—The Pauly Jail Building & Manufacturing Co., of St. Louis, Mo., have the contract to build the jail, previously reported. It will cost \$9,825.

Corsicana.—\$10,000 of bonds will be issued to build sewers. The mayor can give information.

Crawford.—A stone quarry will be developed by J. T. Fuller.

El Paso.—The Atchinson, Topeka & Santa Fe Railroad Co., (office, Topeka, Kan.) contemplates building a railroad from Kansas to El Paso, 600 miles.

Dallas.—A large foundry is in contemplation.

Dallas.—The Dallas & Oak Cliff Elevated Railroad Co., capital \$400,000, has been incorporated to build an elevated railroad, by T. L. Marsalis, Thomas Field, J. T. Dargan, J. T. Elliott, W. J. Storms, Frank Field and others. The cars will be operated by cables or electricity.

Dallas.—Courser & Crossman are starting a furniture factory.

Fort Worth.—The Fort Worth Ice Co. will move their factory to another location.

Fort Worth.—The Fort Worth Ice Co. will erect an electric-light plant at a cost of about \$40,000.

Fort Worth.—A stock company will be organized to develop the coal deposits on the land of George S. Burchim near Fort Worth.

Fort Worth.—The Fort Worth Iron Works, previously reported, have organized with Oscar Lynch as president; Samuel Furman, vice-president; A. W. McArthur, secretary; W. B. Harrison, secretary, and John F. Moore, superintendent. The contract for their new works has been awarded.

Galveston.—It is reported that a stock company will be organized to build a large brewery as soon as pure artesian water is secured.

Greenville.—G. M. McSpadding, previously reported as contemplating erecting a mill, wants catalogues of machinery for buhr flour mills.

Honey Grove.—The name of the company previously reported as formed to build a flour mill is the Honey Grove Mill & Elevator Co. They have purchased a complete outfit of roller machinery.

Houston.—The capacity of the oil mill previously reported to be built by the Southern Cotton Oil Co., of Philadelphia, Pa., will be more than 200 tons daily, instead of 150 tons as reported, the company having decided not to build a mill at Dallas.

Houston.—Capitalists from Columbus, Ga., are reported as looking for a site for a new ice factory. The Columbus Iron Works, of Columbus, Ga., can probably give information.

Huling.—C. Metz & Bro. talk of erecting a flour mill.

Longview.—The Galveston, Sabine & St. Louis Railroad Co., (office, Galveston,) are building machine shops.

Marshall.—J. L. Wheat will rebuild his saw and shingle mill reported in this issue as burned. The loss is \$7,000.

McKinney.—The Collin County Mill & Elevator Co., capital stock \$25,000, has been chartered.

McKinney.—The McKinney Water Supply Association has been chartered by J. L. Doggett, D. F. Garrish, H. A. McDonald, J. L. White, J. P. Crouch and Jesse Shain. The capital stock is \$40,000.

Mt. Pleasant.—A planing mill is to be erected.

Navasota.—The incorporators of the company lately reported as formed to erect a compress are J. M. Camp, F. W. Brosig, Joseph Brooks and others.

Paris.—The contract to enlarge the county jail has been let to the Pauly Jail Building & Manufacturing Co., of St. Louis, Mo., at \$6,600.

Pilot Point.—Moffit & Harrison have purchased machinery for a roller corn meal mill.

San Antonio.—The San Antonio Brewing Association are putting in additional ice machinery of 30 tons daily capacity.

San Antonio.—George M. Dilley is president, and G. E. Dilley, secretary and treasurer of the San Antonio Foundry Co., lately reported as incorporated. Work on a plant has been commenced.

San Diego.—Plans are being prepared for a sewerage system.

Sherman.—The Farmers' Alliance of Grayson County, previously reported as deciding to build their flour mill at Denison, have reconsidered their decision and will build it at Sherman. The capacity will not be less than 150 barrels daily.

Sherman.—The Sherman Oil & Cotton Co. will put in additional steam power.

Tyler.—It is reported that the St. Louis, Arkansas & Texas Railroad Co., (office, St. Louis, Mo.) will enlarge and improve their machine shops.

Waco.—At the meeting of the State Farmers' Alliance Cotton Congress last week, \$500,000 were appropriated to build a large cotton factory.

Whitewright.—Cullers & Hewing want to buy flour-mill machinery.

VIRGINIA.

Abbyville.—John D. Cornwell is developing a gold mine two miles from Abbyville.

Alexandria.—The Mineral Railroad Co., capital stock \$1,000,000, will be incorporated to build a railroad from Strasburg to the West Virginia State line.

Alexandria.—The object of the Potomac & Alleghany Railroad & Improvement Co., reported last week, is to build a railroad from near Alexandria to the West Virginia State line. The incorporators are John Reid, W. B. Compton and others. The capital stock is to be not less than \$50,000 nor more than \$5,000,000.

Buffalo Gap.—W. H. Clare has purchased machinery to rebuild his saw, planing and shingle mill reported last week as burned. The loss was \$5,000.

Claremont.—A sumac factory will be started. W. W. Webb can give particulars.

Claremont.—William Young, John E. Farrell, William H. Somers and others contemplate starting a canning factory and jelly works.

Claremont.—A stove factory is to be erected by Pennsylvanians. William Young can probably give particulars.

Galts' Mills.—S. A. Wright has rebuilt on a larger scale his saw mill and sash, door and blind factory burned several weeks ago.

Graham's Forge.—Graham & Robinson have sold 500 acres of iron ore lands to a New York syndicate, who will build a furnace. The syndicate own other ore lands.

Lynchburg.—P. A. Krise has purchased 10,250 acres of mineral lands in Craig, Roanoke and Botetourt counties.

Lynchburg.—The Lynchburg Belt Railroad & Improvement Co. will be incorporated by John W. Daniel, John D. Holt, Peter J. Otey, W. H. Ford and others. The capital stock is to be not less than \$25,000 nor more than \$1,000,000. The company will have the privilege of establishing manufactures.

Lynchburg.—Larkin & Woody have lately started a carriage and wagon factory.

Manchester.—The Old Dominion Electric Light & Power Co. are building an electric light plant. Have purchased necessary machinery.

Max Meadows.—The Wythe Lead & Zinc Mine Co. will enlarge their works at once by erecting a double block of zinc furnaces.

Max Meadows.—The Lobdell Car Wheel Co., of Wilmington, Del., will blow in their Walton furnace this year.

Norfolk.—The chief of the Bureau of Yards and Docks in the Navy Department, Washington, D. C., will receive proposals for building the dry dock at Norfolk, previously reported, until June 29. It will be 125x480 feet.

Petersburg.—Orr & Holt will at once rebuild their planing mill lately reported as burned.

Richmond.—The incorporators of the North Carolina Wheel Co., reported last week, are N. V. Randolph, James B. Pace, T. C. Williams, P. H. Adams, Thomas McMahon and others. The object of the company will be to manufacture carriages, carriage materials, etc. The capital stock is to be not less than \$75,000.

Richmond.—Bills have been introduced in the legislature to incorporate the Metropolitan Quick Transit Bridge Co., to build a bridge across the James river, near Manchester, with T. C. Williams, E. Y. Cannon, James B. Pace, of Richmond, and others as incorporators; the Mount Pony Granite & Railway Co.; the People's Illuminating Co. (Norfolk); the Bristol-Goodson Street Railroad Co.; the Suffolk Street Railroad Co.; the Newport News, Hampton & Old Point Railroad Co.; the Old Dominion Terminal & Railway Co., with Thomas M. Hodges and others as incorporators; the Lynchburg Belt Railroad & Improvement Co.; the Shenandoah Land & Anthracite Coal Co.; the Roanoke Cotton Mills, capital stock \$200,000; the Reed Island Iron Co., and the New South Mining & Improvement Co., with L. H. Shields, George W. Kilgore, H. K. N. Baker, Morton Williams and others as incorporators, and a capital stock of not less than \$50,000 nor more than \$5,000,000.

Staunton.—The flour mill of Witz & Holt will be refitted with new machinery.

Wytheville.—The city has decided by a popular vote to issue the \$60,000 of bonds previously reported, to build water works and light the city with electric lights. The mayor can give information.

WEST VIRGINIA.

Charleston.—The Kanawha Construction & Land Co., capital stock \$100,000, has been incorporated by H. D. Stamwood, of Brooklyn; E. B. Knight and George Couch, Charleston; H. D. Whitcomb, Richmond, Va., and H. C. Parsons, Natural Bridge, Va. The object of the company is to lease and develop mines, build railroads, &c.

Charleston.—The Coal River Lumber & Mining Co., previously reported, have organized with Frank J. Harrison, of Baltimore, Md., as president; W. A. McCorkle, secretary, and Robert Mitchell, treasurer. The company have a paid up capital stock of \$764,000, and will soon develop their property, build a railroad, &c.

Coalburgh.—William H. Edwards will receive bids until June 19 for building an iron bridge across Paint creek.

Fire Creek.—The Central Coal Co., capital \$50,000, has been incorporated by M. T. Davis, of Coal Valley, John R. Seal, Newark, N. J., T. H. Gordon, Newport News, Va., and others, to engage in mining coal, &c.

Huntersville.—C. F. Moore and L. M. McClintic will receive bids until June 1 for building a bridge 90 feet long.

Huntington.—J. L. Caldwell has asked for permit to build a street railroad.

Keyser.—A. B. McCarty has purchased some new machinery for his factory.

BURNED.

Baltimore, Md.—The Highlandtown Chemical Works of Michael T. Dorsey; loss about \$60,000. Will be rebuilt.

Farmerville, La.—The machine shop and foundry, the grist mill and the flour mill of W. P. Chandler; loss \$5,000. Will be rebuilt.

Fort Meade, Fla.—The mill of Mr. Tower.

Knob Creek, N. C.—The cotton gin and shingle machine of John Cline & Sons.

Marshall, Texas.—The lumber mill of M. J. Wheat; loss \$8,000.

New Orleans, La.—The cistern factory of R. B. Mitchell.

New Orleans, La.—The wagon factory of Thomas O'Connors' Sons.

Palmetto, Ga.—The saw mill of Welkerson & Nixon, 3 miles from Palmetto.

Tallahassee, Ga.—The saw and planing mill of J. C. Jackson. Will probably be rebuilt.

Temple, Ga.—The saw mill of N. E. Allen, near Temple; loss \$1,000.

Tuskegee, Ala.—The steam saw mill of Robinson & Perry, 12 miles from Tuskegee.

Walhalla, S. C.—The steam saw and planing mill of Mr. Richardson, near Walhalla; loss \$2,000.

To Erect a Cotton Compress.

ARCADIA, LA., May 3, 1887.

Editor Manufacturers' Record:

About \$17,000 has been subscribed to put in a compress, and \$20,000 will likely be soon subscribed by the merchants of this city, which is considered good.

J. C. BRICE.

Bids Wanted for Building Hotel.

LIVERPOOL, FLA., May 2, 1887.

Editor Manufacturers' Record:

The Grove City Land Company will commence about the first of June to build a hotel at Grove City on the Gulf. The building will be of wood, 2½ stories in height and have a frontage of 300 feet on Lemon Bay, ¼ of a mile from the Gulf of Mexico. Proposals for plans and specifications will be received at their office in Liverpool up to the first day of June, 1887. The plan accepted will be paid for by the company, but they reserve the right to furnish all material. Building, complete, to cost not over \$30,000.

THE GROVE CITY LAND CO.
F. H. HAFFER, Secty.

Enlarging Machine Works.

LITTLE ROCK, ARK., April 30, 1887.

Editor Manufacturers' Record:

We are adding to our plant a two-story brick building, iron front, 50x140, which will give us 14,000 square feet of floor space. This improvement is made necessary in order to accommodate our rapidly increasing trade. We give employment to one hundred men and boys, and are now busy on contract for 150 steam cylinders, 26 inch bore by 6 feet stroke, weighing 2,700 pounds each, for the Thomas Steam Cotton Press. The Southern Cotton-seed Oil Co. will break ground for their large mill next week. Fred. Hanger will erect a new pickery on the site of the old one destroyed by fire. Simeon Anderson has purchased an outfit for saw and shingle mill, with capacity 80,000 shingles and 30,000 feet lumber per day.

D. R. WING.

Information Wanted.

GREENSBORO, N. C., May 7, 1887.

Editor Manufacturers' Record:

I wish the address of reliable dealers or consumers of oak, walnut and hickory, lumber; also shuttle blocks. W. R. BURGESS.

To Build Two Furnaces.

NASHVILLE, TENN., May 7, 1887.

Editor Manufacturers' Record:

I am a stockholder in the Sequatchie Coal & Iron Land Improvement Co., and learn that they contemplate building two furnaces at South Pittsburg, and opening coke ovens, mines, &c., this year. W. MORROW.

An Iron and Steel Company.

BIRMINGHAM, ALA., May 6, 1887.

Editor Manufacturers' Record:

The East Birmingham Iron & Steel Co. have applied for charter. Incorporators are H. P. Lloyd, Cincinnati, Ohio; L. Sackindrop, Cincinnati, Ohio; G. B. West, C. W. Simson, R. W. Boland and Geo. C. Kelley, Birmingham, Ala. GEO. C. KELLY.

To Enlarge Machine Works.

ELKTON, MD., May 4, 1887.

Editor Manufacturers' Record:

I am about to enlarge my works.

GEO. MCQUILKIN.

Will be Rebuilt.

FARMERVILLE, LA., May 1, 1887.

Editor Manufacturers' Record:

On yesterday my entire place of business, consisting of foundry and pattern shop, machine shop, grist mill, wheat mill and printing office, were burned. The press and material was saved, with books and paper. The loss is \$5,000. I saved about \$1,000 worth of tools and material. Will rebuild and hope to have my grist mill running this week. W. P. CHANDLER.

CARTERSVILLE, GA., May 5, 1887.

Editor Manufacturers' Record:

I have leased my manganese property to Mr. Haslitt, of Pittsburgh, Penn., who proposes to ship 500 tons manganese per month. My lands are ten miles from the railroad and the royalty paid is \$1 per ton. Our mining has so far been confined to surface work. The deposits of this ore are inexhaustible, and the quality about 60 per cent, and with but little impurities. Analyses show this ore most suitable for the manufacture of ferro-manganese. The Etowah Iron & Manganese Co. have contracted with the Cartersville Land Improvement Co. to erect in our city not less than a 100-ton furnace during the present summer, and the land company is now soliciting stock for investment in this land company's enterprise. Our citizens have taken \$50,000 in it and are now soliciting subscriptions from outside parties for the remaining \$75,000. This secures them fronts on both our railroads, which will be donated to manufactures of any kind. The Etowah Iron & Manganese Co., in consideration of a fractional interchange of stock between their company and the land company, will build their furnaces in the center of the land company's property, and this prospect, with our location and resources, induces the investment of capital. AARON COLLINS.

CULLMAN, ALA., May 2, 1887.

Editor Manufacturers' Record:

The Bradford Well Co., of Chicago, has signed contract to sink an artesian well for the Cullman Land & Improvement Co., work to begin within the month. Water works will probably be constructed. A. Dreher & Co., manufacturers of furniture, have completed a large addition to their warehouse. WILL G. BROWN.

HELENA, ARK., May 6, 1887.

Editor Manufacturers' Record:

The Helena Opera House Co. was organized with a capital stock of \$15,000. C. R. Coolidge is president; E. C. Hornor, secretary, and A. Meyers, treasurer. Expect to open early in October next.

C. R. COOLIDGE.

Birmingham's Building Boom.

BIRMINGHAM, ALA., May 5, 1887.

Editor Manufacturers' Record:

We are putting up a six-story business block on north-east corner 3d avenue and 22d street; it will be granite to the second floor, with a fine basement; with all modern improvements, such as patent crane elevator, with lever attachment, steam heat, &c., &c. The building will cost, completed, \$40,000, and with the ground \$100,000. We hope to make this the handsomest and most modern structure in our progressive city. It is considered as a conservative estimate, that contracts have been let for at least 1,500 buildings, at a total cost of \$3,000,000 to \$4,000,000. A building boom seems to have struck this city with great force, and its rapid growth is a pleasure to its inhabitants and a wonder to its visitors. S. G. PAINTER.

THOMSON & PAINTER.

Railroad to be Built.

CEDAR KEY, FLA., May 2, 1887.

Editor Manufacturers' Record:

A railroad is to be built from this place to Branford, a distance of 60 miles through the rich Suwanee river country by the Suwanee & Gulf R. R. Co., R. Y. H. Thomas, president, J. O. Andrews secretary. Capital has been enlisted and from present indications the work will be begun soon.

JAS O. ANDREWS.

Sad Iron Works.

BIRMINGHAM, ALA., April 28, 1887.

Editor Manufacturers' Record:

A sad iron plant is to be built; capacity 10 tons product per day; capital \$25,000; Geo. C. Kelly, R. W. Boland, and G. B. West proprietors. Work on building will commence this week; machinery now in transit. G. B. WEST.

Excelsior Machinery Wanted.

NASHVILLE, TENN., May 4, 1887.

Editor Manufacturers' Record:

I have organized a company at this place for the manufacture of excelsior. We expect to begin work in a short time and contemplate the purchase of, say half a dozen machines. We are open to bids.

ROBT. THOMPSON.

Railroad to be Extended.

BALTIMORE, MD., MAY 7, 1887.

Editor Manufacturers' Record:

The West Virginia Central R. R. Co. have a corps of engineers on the line, surveying the same south-westwardly from a point near Davis in Tucker county, W. Va., in the direction of Charleston, with the expectation and intention of eventually extending their line to the Kanawha river. K.

To Erect Electric Light Machinery.

NATCHEZ, Miss., May 3, 1887.

Editor Manufacturers' Record:

I contemplate putting in a small electric plant to light the park and casino at end of my railway (street) and the street leading to the park. I have not yet determined the extent of plant, as applications for light come in every day, and I am getting in estimates of cost. THOS. REBER.

Will Rebuild Mill.

STAUNTON, VA., May 5, 1887.

Editor Manufacturers' Record:

The saw mill, planing & shingle mill of W. H. Claire & Co., Buffa Gap, Va., was burned April 19; loss \$5,000; no insurance. Have purchased new machinery entirely and will rebuild at once. W. H. CLAIRE.

A Furnace to be Built.

GRAHAM'S FORGE, VA., May 5, 1887.

Editor Manufacturers' Record:

Messrs. Graham & Robinson sold to a New York Syndicate on the 1st of May their Peirce mine property, containing 500 acres, larger part of which is rich in iron ore; price obtained \$25,000. This property, united with other properties owned by the same company, will form one of the most valuable iron properties in this section, and we are informed that a large iron furnace will soon be erected by the owners, who are men abundantly able to carry out any plans that they may undertake. J. W. R.

Erecting Electric Light Plant.

RICHMOND, VA., May 7, 1886.

Editor Manufacturers' Record:

Our works at Manchester are in process of erection. THE OLD DOMINION ELECTRIC LIGHT & POWER CO.

BIRMINGHAM, ALA., May 6, 1887.

Editor Manufacturers' Record:

The Bessemer and Birmingham dummy line will be built at once from here to Bessemer. H. F. DeBardleben, president, L. E. Bruns, secretary and treasurer. Mr. Wyllie, of London, Eng., Mr. A. T. Smythe, of Charleston S. C., Maj. E. A. Burke, of New Orleans, La., Mr. Carpenter, of Natchez, Miss., and others are the incorporators.

H. F. DEBARDELEBEN.

TAYLOR, TEX., May 5, 1887.

Editor Manufacturers' Record:

We shall at no distant day make an extension of our mains, but just how soon I cannot tell, as circumstances are more favorable and may not demand it so soon as anticipated. T. P. BARTON, Superintendent.

B. K. COLLIER & CO.**Investment Agents,**

HEAD OFFICE:

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Birmingham, Ala., Decatur, Ala., Chattanooga, Tenn.

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Refer to THE CORBIN BANKING CO., New York City. Address all letters to Head Office.

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Any information concerning Anniston will be cheerfully given.

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Light Sections Rails and Spikes in stock.

Locomotives, Logging Cars, etc.

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As Assistant Superintendent, a situation by a young man whose education and experience in mechanical trades and in business matters makes him thoroughly competent to fill a responsible place; refers to leading manufacturers and prominent men as to character and ability. Address

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HARD-WOOD TIMBER LANDS**WATER POWER FOR COTTON OR PAPER MILL.**

We have for sale several large and very valuable tracts of Hard-wood Timber Lands, situated on railroad convenient to Danville, Va., suitable for handle, spoke, wheel, plow, carriage and wagon timber. Also good sites for the location of wood-working and other plants at Danville, Va. We also have for sale an exceedingly valuable one hundred horse water-power in the corporation of Danville, Va., specially adapted for Cotton or Paper Mills. Correspondence solicited.

RUFFIN & HAIRSTON, Real Estate Agents, DANVILLE, VA.**O. H. PARKER & CO.**

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BUY AND SELL

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Correspondence solicited. Refer to First National Bank of Anniston. Advantageous Manufacturing Sites Obtained Free.

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Minerals a Specialty.

Refers to { THE HOWARD BANK, Cartersville, Ga. } J. W. RANKIN, Atlanta, Ga.

CHANCERY SALE.

Under decree of Chancery Court at Jonesboro, Tenn., I will on May 21, 1887, on premises at Telford's Station, on East Tennessee, Virginia & Georgia Railroad, in Washington County, Tenn., sell at Auction without redemption the Lands, Factory, Buildings and Machinery heretofore owned by "Telford Agricultural Manufacturing Company."

About ten acres Land; splendid three-story Factory; fine Water-power; 23 horse-power new iron Turbine Wheel; Foundry; Saw Mill; Planer; iron, wood, spoke and handle Lathes; buff Wheel; emery Stone; press and stove Drills; casting Grinder and Cleaner; jointing, band, cut-off and rip Saws; Beam Machine; Flasks; Follow Boards; Plow, Stove and Hollow-ware Patterns; noiseless Blower; Core Stove; Scales; Vises; Benches; Shafting; Pulleys; Belting, &c. Machinery suitable for making Farming Implements, Plows, Stoves, Spokes, Handles.

Terms.—Ten per cent. on confirmation, balance 12, 18 and 24 months, equal instalments; notes with personal security and lien on property. A. B. BOWMAN, Clerk and Master.

WM. E. TANNER,

No. 1415 Main Street, Richmond, Va.

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LIGHT LOCOMOTIVES,

Dummies for Street Railroads,

Pole Railway Locomotives and Cars,

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Also, Freight Cars, of all styles, Railroad Spikes, Fish Plates, Bolts, Car Axles, Car Wheels, Trucks, Links, Pins, and other Car Forgings, Bar Iron, Steel Horse Shoes.

Look Carefully through this paper and you may find an advertisement of some machinery or other goods that you are in need of. Preserve this copy for future reference.

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Commission Dealers in Lands, Stocks and Bonds.**City and Mineral Property a Specialty.**

Capital Stock
\$100,000.

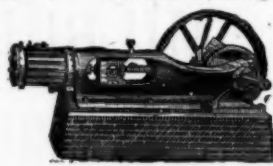
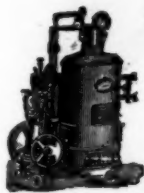
—REFERENCES—

First National Bank, Anniston, Ala.

Col. Jno. M. McKleroy, Pres. Anniston City Land Co.

ANNISTON, ALA.

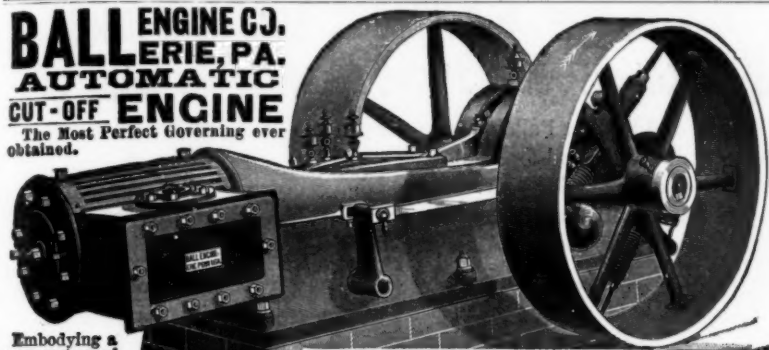
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107 Liberty St., N. Y. 10 S. Canal St., Chicago. Baltimore—Morton, Reed & Co.**Vertical, Stationary and Portable
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FOR EVERY DUTY.**

We make the best and most reliable high-speed Automatic Engines for running Electric Light Plants. We guarantee the "Payne Automatic" to furnish same power as the ordinary Throttling Engine at one-third to one-half less fuel and water, doing the same work. It will pay you to send for our catalogue and prices before ordering elsewhere. We have got what you want, and low prices.

**BALL ENGINE CO.
ALLERIE, PA.
AUTOMATIC
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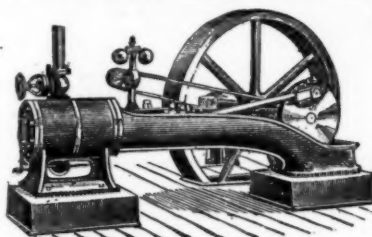
The Most Perfect Governing ever obtained.



Embodying a new system of **ABSOLUTE REGULATION** against change of load and boiler pressure.

WE CHALLENGE THE WORLD on good regulation. Only Engine which Absolutely Holds to constant speed under all changes of load. An indispensable feature.

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Double Drum Derrick Engines. Single Drum Reversing Engines, suitable for Mines and Rapid Hoisting.

Catalogue sent on application.

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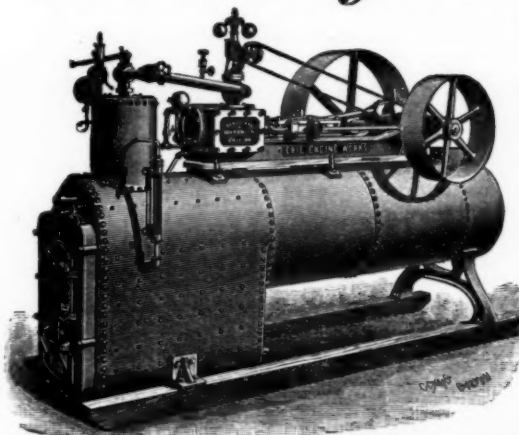
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Stationary,
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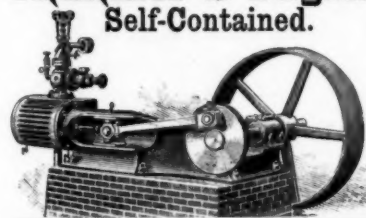
Portable,
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Engines. Boilers.

Send for Catalogue and Prices.

**Chandler & Taylor's STEAM ENGINES**

Self-Contained.

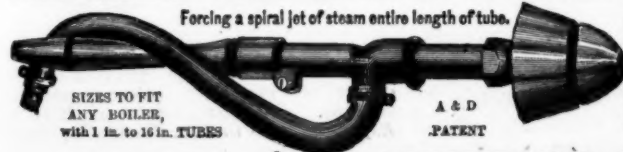


Are Strong, Well-Built and Serviceable. Are designed for Heavy and Continuous Work. May be run at High Speed when desired, performing the duties of High Grade Engines. And are sold at the prices of ordinary Engines.

For Prices and Descriptive Circulars, address **CHANDLER & TAYLOR, INDIANAPOLIS, IND.**

CLEVELAND FLUE-CLEANER MANUFACTURING CO.

Forcing a spiral jet of steam entire length of tube.



SIZES TO FIT ANY BOILER, with 1 in. to 16 in. TUBES

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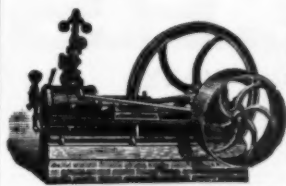
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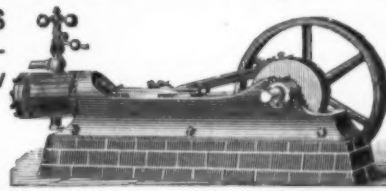
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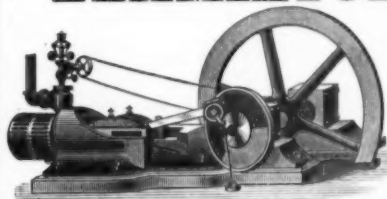
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ALSO A STOCK OF OTHER ENGINES (our make.) Prices and description on application.

BOILERS MAHONING BOILER WORKS ESTABLISHED 1863.
PIPES, STACKS, BEAMS, ROOF TRUSSES.
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FOR SETTING STEAM BOILERS.



Economy of Fuel, with increased capacity of Steam Power. Like the Siemens Process of Making Steel, it utilizes the waste gases with hot air on top of the fire. Will burn all kinds of waste fuel without a blast, including Black Coal, Sawdust, Logwood Chips, &c. Send for Circulars.

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Phosphate Mining Co., Beaufort, S. C.
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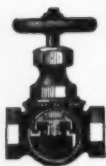
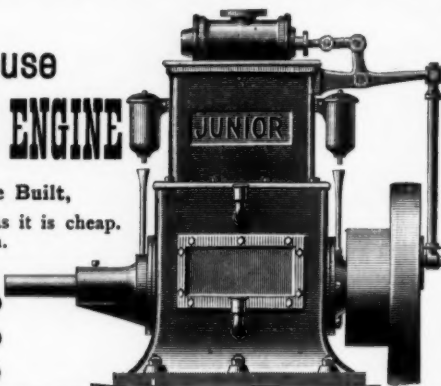
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"JUNIOR" Automatic ENGINEAs the CHEAPEST Engine Built,
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Made in three sizes, in lots of 100 each.

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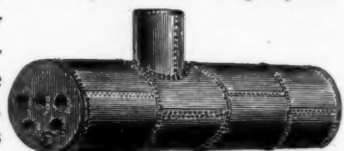
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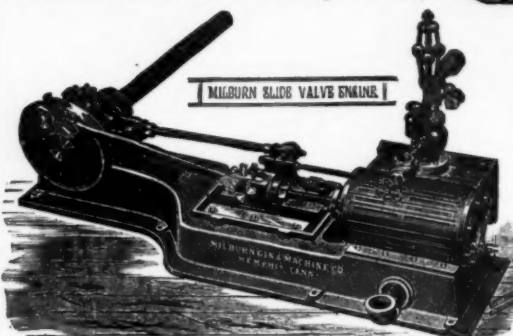
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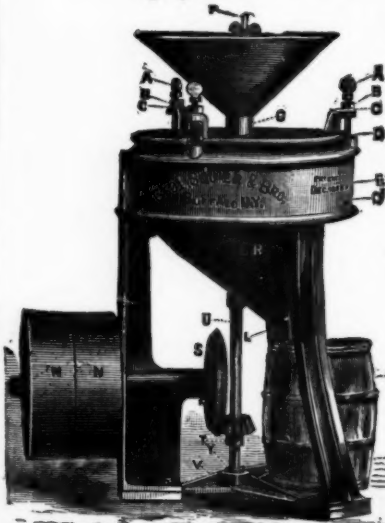
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Engines, Horse-Powers, Boilers, etc.

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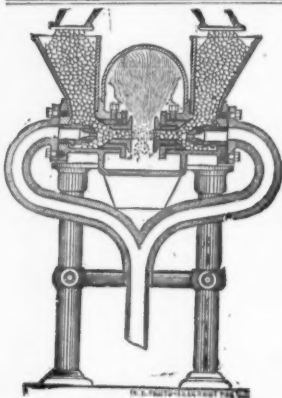
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BUILDERS OF { *ENGINES and BOILERS, STAMP MILLS,*
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Cotton Presses, Water Wheels, Shafting and General Machinery.

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PNEUMATIC PULVERIZER.

The principle of pulverization consists in the employment of

TWO POWERFUL OPPOSING CURRENTS

of dry super-heated steam, so arranged that they continuously charge themselves with crushed or granulated material, and by the great force and velocity of the steam currents the minerals are dashed against each other with such power of concussion as to cause the hardest ores to be pulverized to any degree of fineness desired. The high temperature of the super-heated steam currents employed, through which every minute particle of ore must pass, causes them to become very hot and dry, which produces a beneficial effect upon sulphurets and ores containing rusty gold. The light weight and simplicity of construction of the Pulverizer, the extremely small and inexpensive wearing parts are the WONDER and SURPRISE of all who witness its operation. The Company are prepared to furnish complete plants for pulverizing

10 to 200 Tons Per Day,

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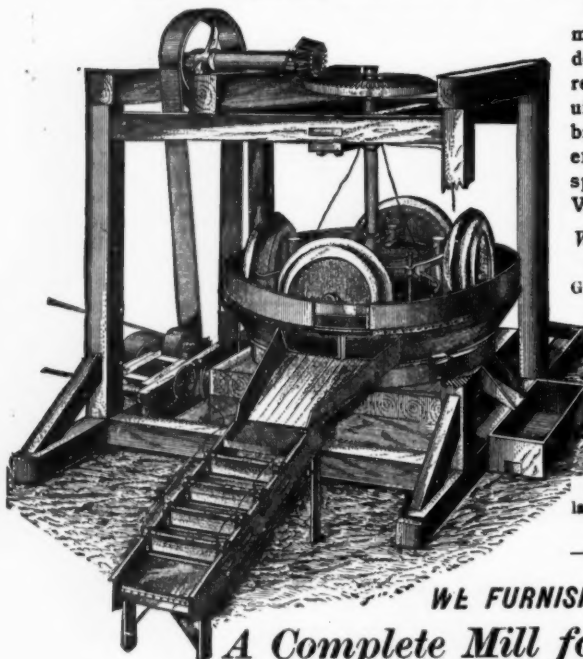
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best pulverizer and most
complete gold saving
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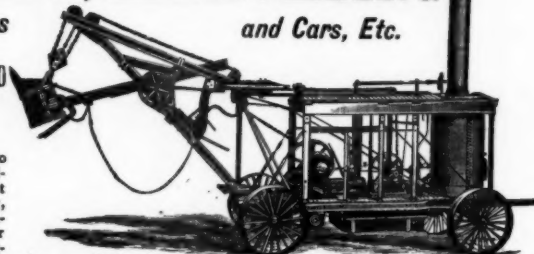
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A splendid selling article.
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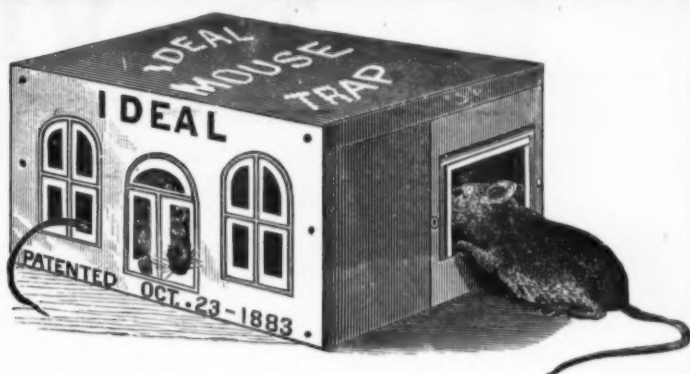
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For the Little Ones.

Order one now through your Hardware
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So perfectly simple in construction, there is nothing to get
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The popularity of the ADAMS SWING in the short time
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There are two sizes manufactured, adapted for both Lawn or
Parlor. No. 1, or largest size, has Standards nine feet ten
inches long, with a spread of about nine feet, and five feet in
width. The Frame Work is so constructed that by taking out
two bolts the standards will close up, and by taking out the
bolts of the two cross pieces the Frame can be closely folded
ready for shipping. The Swing can be put up, or taken down,
ready for packing, in ten minutes. The Weight of the
Swing is a Little Less than One Hundred Pounds.

It is very strong, having been tested by four men whose
weight aggregated over Eight Hundred Pounds.

The No. 2, or Parlor Size, has standards about seven feet
long, and otherwise proportioned in size, weighing less than
Seventy-Five Pounds. They combine Simplicity of Construc-
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There has long been a demand for
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It has a $\frac{1}{2}$ -inch iron rod running
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are quite sure this Ladder will meet
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very popular. With or without pail
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• REVERSIBLE CLOTHES HORSE. •

This Horse is made of Ash Timber, and has a new Patent
Hinge that goes around both the standards and rods in such a
manner as to make a perfect Reversible Horse, and one that
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made in four sizes; each size has four sections as shown in cut.

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We manufacture a large line of Hardware Specialties and Household Articles, including Wringers, Ladders, Clothes Horses, Mouse and Rat
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We will make it interesting to Hardware Dealers who will handle our line of specialties. Write for particulars and send for sample order.

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Possesses more than Double the Capacity of other Water Wheels of same diameter, and has produced the Best Results on Record, as shown in the Following Tests at Holyoke Testing Flume:

Size of Wheel.	Head in Ft.	Horse Power.	Pct. Useful Effect.
15-inch.	18.06	30.17	.8633
17 1/2-in.	17.96	36.35	.8690
20-inch.	18.31	49.00	.8533
25-inch.	17.90	68.62	.9584
30-inch.	11.65	52.54	.8676

WITH PROPORTIONATELY HIGH EFFICIENCY AT PART-GATE.

Such results, together with its nicely-working gate, and simple, strong and durable construction, should favorably recommend it to the attention of ALL discriminating purchasers. These wheels are of very Superior Workmanship and Finish, and of the Best Material. We also continue to manufacture and sell at very low prices the

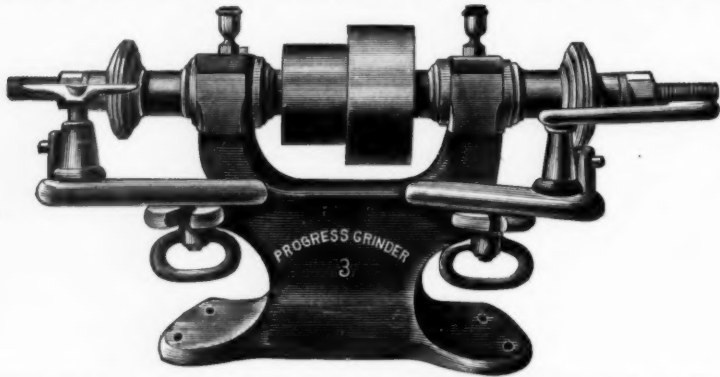
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So long and favorably known. State your requirements, and send for Catalogue to the

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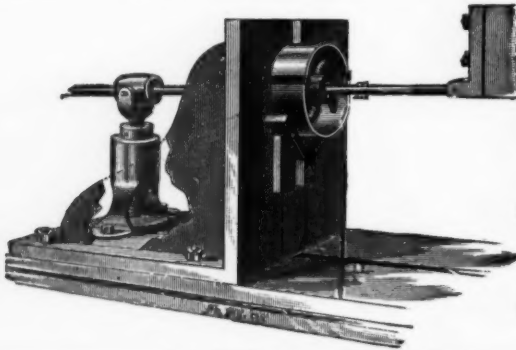
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Best Key-Way Cutter in the Market.
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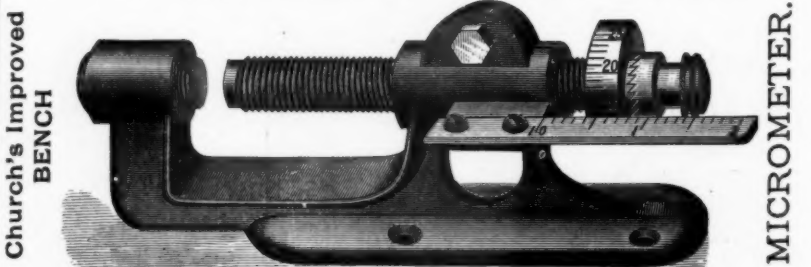
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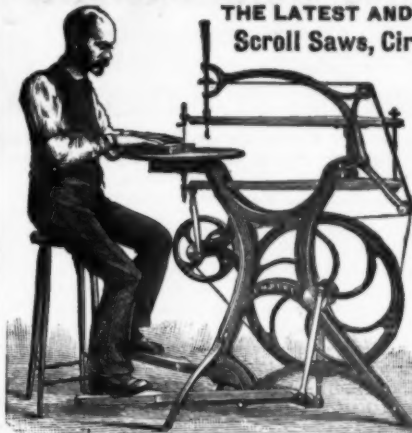
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Scroll Saws, Circular Saws, Mortisers, Lathes, &c.

**THE EMPIRE SCROLL SAW.**Cuts 3 in. Thick, Swings 24 in. Has Upright
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Cuts Rapid, and is Easy to Operate.

PRICE, complete, \$25. Without Drill, \$20.

This Machine will pay for itself in a short
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We made a test of its capacity when we had
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THE MIDVALE STEEL CO.**TIRES and AXLES**

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Seat
Spring.The same Wagon can be used as an Express and Lumber
Wagon. You can raise the end of your Wagon bed and put
the Springs on or off at pleasure.The hooks that fit the side of the Wagon bed are a part of
the Spring, making the lightest, the most comfortable, and the
strongest Spring on the market. These are a great improvement on the old style seat Spring

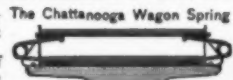
VEHICLE SPRING CO.,

Gentlemen: After having tried your Springs, both Bolster and Seat, we cordially
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heartily commend them for general use. Very respectfully, &c.,

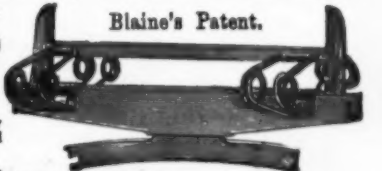
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Address for further information

ATTENTION, DEALERS!
A liberal discount to the trade.

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VEHICLE SPRING CO., Chattanooga, Tenn.

\$500,000 To be Invested in Manufacturing Enterprises

OPEN FOR SALE JUNE 24, 1887.

ON THE PROPERTY OF

THE ATHENS MINING & MANUFACTURING CO., at ATHENS, TENN.

A New Railroad Through the Company's Property to the Greatest Iron Fields in the South—A Vein of IRON 75 FEET THICK, only Seven Miles from Athens—Inviting Field for Home-Seekers, and a Splendid Opening for Capital.

The Athens Mining & Manufacturing Company has been organized by an association of gentlemen who are thoroughly acquainted with the wonderful mineral riches of McMinn county, Tennessee, covering the most extensive Iron Fields in the world, measureless beds of Marble of all the best grades and varieties, and vast forests of all the fine Woods used in manufacturing and building, both for ornamentation and utility. The Company is composed of prominent capitalists of New York city, Cincinnati, Louisville, Chattanooga, Knoxville, Atlanta, Selma, Nashville and Athens, the office being at the last named place, with the First National Bank.

The membership of the Company numbers in its composition bankers, brokers, manufacturers, lawyers, journalists, merchants and others, whose high character for business and whose financial standing is a positive guarantee that every proposition made will be faithfully adhered to in detail.

The Company is established upon a business basis, and will be controlled by the strictest business principles. The methods of procedure will conform to such practical and practicable ideas as characterize the most successful and honorable business men of the country. The Company differs from any other ever organized in the South. It does not commence business by flooding the market with stock at a fictitious valuation. It has no stock for sale.

The Lands of the Company comprise a solid body of 800 acres, laying on both sides of the East Tennessee, Virginia & Georgia Railroad, in the northern suburbs of Athens. These Lands have been laid off into wide streets and beautiful lots, preparatory to placing them upon the market, with a view to building a city. The property is a magnificent table land, sufficiently rolling to afford perfect drainage, and commands an excellent view of the valley for miles, and of the Great Smoky Mountains on the east, and the Cumberland Mountains on the West. Upon this property the Company will erect immense Manufacturing Plants, to cost in the aggregate

FIVE HUNDRED THOUSAND DOLLARS,

as a basis for population.

The lots which the Company will sell will be formally placed upon the market on

MONDAY, MAY 16TH, 1887.

All lots are to be sold and deeded under the most positive guarantee that all money paid in on account of sales will go into the hands of a heavily bonded trustee, to be refunded to the purchasers with six per cent. interest if the Company fails in any particular to comply strictly with all its propositions. (See deed.) These include the erection of

One 100-Loom Plaid Mill, estimated cost \$100,000.

One 5-set Woolen Mill, estimated cost \$100,000.

One Cotton Sheeting Mill, estimated cost \$90,000.

One 3,000-spindle Cotton Carpet Warp Mill, estimated cost \$60,000.

One 3,000-spindle Warp (for jeans) Mill, estimated cost \$60,000.

A hotel, to cost \$30,000.

Public School Building, to cost \$10,000.

In addition to the above the Company guarantees Electric Lights, Water Works and Street Car Lines. Negotiations are also now pending with a view to the extension of the new Railroad to the large Coal Fields, 25 miles distant, on the Cincinnati Southern Railroad, thereby connecting the vast Iron Deposits with Coal. This will then give North Athens her Iron Furnaces.

The Water to be supplied to the town will be taken from the famous Ingleside Spring, adjoining the property, and which flows over 3,000,000 of gallons each day of very cold water, clear as crystal.

The Company will also donate sufficient ground for other manufacturing enterprises to any company or person desiring to establish the same upon the Company's property, and in addition will subscribe to stock in them.

In a word, The Athens Mining & Manufacturing Company was organized to build a city, and it proposes to stop nowhere short of a full realization of its original purpose.

Elegant lithograph plates of the property, showing the location of each large mill and the course of both railroads through the town, will be displayed at various points, and may be had upon application. Plans and specifications of the mills and other improvements are now being prepared and can be seen at the office of the company at Athens.

The new Railroad, a survey of which is now being made, will be built at once, and will extend to Tellico, 22 miles distant. This Road will open up the richest

IRON, MARBLE AND LITHOGRAPH STONE

Deposits in the United States. One of the veins of Red Hematite Ore, only seven miles distant, is 74 feet thick by actual measurement, and contains, by careful analysis, 53 per cent. of Metallic Iron and only seven per cent. of silica. This is the most notable, but not all of the iron ore. The line of the Road is literally bound by deposits of Iron, Marble and Lithograph Stone, while the lands contiguous to the Road are covered with dense Forests of all the valuable Timbers, such as Walnut, Cherry, Ash, Linn, Hickory, Oak, Cedar, Poplar, Locust, Pine, Maple, Sycamore, &c. There are many varieties of Marble—white, black and variegated in all the colors—and the quantity is positively inexhaustible. It is expected, of course, that the building of this Road, which is an assured fact, will contribute largely to the growth of the new city which the Company is determined to establish.

Copy of Deed of the ATHENS MINING & MANUFACTURING CO.

In consideration of dollars, cash in hand paid, the receipt whereof is hereby acknowledged, and three notes of even date and equal amount, due respectively in six, twelve and eighteen months, interest from date, we have this day sold and do hereby transfer and convey unto the following described real estate, to wit: Lots Block in North Athens, McMinn county, Tennessee. We covenant with said and his heirs that the same is unincumbered; that we have a good right to convey, forever warrant and defend the title to the same. Lien retained until the purchase money is fully paid. Under this purchase it is guaranteed by the Athens Mining & Manufacturing Company that it will erect and equip, or cause to be erected and equipped, upon the above mentioned property in North Athens, the following manufacturing industries and improvements, to wit:

One Woolen Mill, estimated cost \$100,000.

One Cotton Sheeting Mill, estimated cost \$90,000.

One Cotton Plaid Mill, estimated cost \$100,000.

One Warp Cotton Mill, estimated cost \$60,000.

One Cotton Warp Mill for jeans, estimated cost \$60,000.

One Hotel, estimated cost \$30,000.

One Public School Building, estimated cost \$10,000.

Water Works, Street Car Line and Electric Lights. Also said Company guarantee a Railroad from the E. T., V. & Ga. R. R., passing through said North Athens to the ore beds east of Athens. Said company reserves the right to change any or all of the particular lines of industries to be erected, but in no case to lessen the aggregate expenditure of \$500,000. Of the expenditure of the above mentioned \$500,000, the Company binds itself to expend said sum as follows: \$150,000 in twelve months, \$150,000 in twenty-four months, and the remaining \$200,000 in thirty-six months; but reserving unto itself the right to expend same aggregate sum in less time than thirty-six months, should it deem it advisable.

Under the sale and purchase of said Company it is the contract between the vendor and vendee hereto that all money paid in upon the purchase of lots shall go into the hand of a bonded trustee, who shall hold all money subject to the faithful performance of special guarantees by said company, and in case said company fails to fulfill said guarantees in the time above mentioned, said trustee is to refund the money with six per cent. interest thereon.

For any information regarding sale or plans call on or address J. T. Woodward, President Hanover National Bank, H. W. McElwee, with Inman, Swann & Co., Cotton Exchange Building, New York; Hon. R. L. Bright, President Tellico Iron Company, Geo. W. Ochs, Manager Daily Times, A. W. Chambliss, Chattanooga; M. O. French, Jo. J. Ivins, U. S. Marshall, Capt. Wm. Rule, Editor Journal, Knoxville; R. J. Fisher, Cashier First National Bank, Athens.

J. L. YOUNG, Secretary of the Company, Athens, Tenn

Business Chances.

WANTED.—An experienced, practical machinist to be foreman in a shoe hinery repair shop. To have charge of four or five men. Must be strictly temperate and come well recommended. Address, stating salary required, Goodwin & Co., Durham, N. C.

A \$3,000 PARTNER WANTED.—I will sell one-third interest in patent for an "improvement on the shoe brush." The invention is a "rubber band or strip attaching to edge of wooden bottom of ordinary shoe brush; said band is studded with short, stout teeth on one side of brush, long, stout points on front end, and corrugations on the opposite side of brush." The teeth or studs loosen mud from shoes, especially heels and soles; the "points" cleanse the "crease," and the corrugations complete the cleansing. I will sell above interest for cash. Royalties will return 200 per cent. annually on investment. C. H. Montgomery, Jacksonville, Ala.

WANTED.—Position as foreman or draughtsman of a machine shop by a person experienced and well up in the best ways of doing work; energetic and practical. Address K., care MANUFACTURERS' RECORD.

COAL OIL.—Smith county, Tenn., lies in the coal oil belt, and it is believed that coal oil exists in quantities that would pay handsomely if operated. If capitalists, investors, or prospectors will write me I will give all the information I have. Moores Luster, Carthage, Tenn.

WANTED.—A sober, experienced and thoroughly competent mine boss, to open up and superintend inside working of coal mine. Must give references and state salary expected. Address W. P. Laramore, Trout Creek, Ala.

A FINE OPPORTUNITY.—Wanted a partner with capital to start a daily paper in a booming Southern city with 12,000 population. Have a paying and prosperous weekly with between 3,000 and 4,000 circulation and best advertising patronage in the State. Good job office, with type, presses and fixtures and paying patronage. Whole plant worth about \$5,000. Paper long established; demand for daily pronounced. A young man preferred, but a man with some capital is wanted who is willing to follow his money into the business and look after it. Address, E. A. O., care MANUFACTURERS' RECORD.

WANTED.—A practical pattern maker, capable of making ordinary drawings, with some experience in millwrighting and machine work; also, a practical man capable of selling and erecting wind-mills. Address, Progress Engine & Machine Works, Summerfield, Baltimore county, Md.

COTTON PRESS.—I have completed model of a cotton press which possesses substantial merit over any press ever put on market. The advantages are economy in packing power, dispatch of work and ease of management. Not being able to handle it, I desire to dispose of the invention. Correspondence solicited. A. H. Harrington, Harrington P. O., N. C.

WANTED.—A man capable of selecting, preparing and rolling in plug tobacco factory. Must be sober and bring good references. Address C. Whittier, Whittier, N. C.

WANTED.—A man with a small capital and thoroughly acquainted with furniture manufacturing, to take one-half interest in a factory now being built at Sheffield, Ala. Address Z. T. Spencer, Sheffield, Ala.

A PARTNER WANTED with \$5,000 to \$10,000 capital to assist in carrying on the business of a first-class machine shop, with good business prospects, located in Atlanta, Ga. Address all inquiries to Box 297, Atlanta, Ga.

A PARTNER with \$10,000 to \$15,000 wanted to operate a cotton mill in Mississippi. Experience not essential. Mill in running order and can be had free of rent for one year, and very low rent after that. I have had 20 years' experience and know that the mill can clear \$100 a day. One firm will contract for all the yarn mill makes for two years at good price. Myron Kent, Natchez, Miss.

WANTED.—A situation by a thoroughly competent manager of the advertising department of a patent medicine or similar business. Long experience and first-class references. Address H. E. T., care Box 98, Atlanta, Ga.

A PRACTICAL Stove Manufacturer desires to organize a stock company in a growing manufacturing and commercial Southern city to manufacture stoves and fine castings. Corporations and capitalists who would take an interest, please address for particulars, Stove Manufacturer, care MANUFACTURERS' RECORD.

WANTED.—A position in some responsible machine manufacturing, where steam engines or wood-working tools are built. Have 28 years' experience, and have several important inventions in steam engines and wood-working machinery. For further particulars and reference address H. F., 2014 W. Market street, Louisville, Ky.

ROOT'S NEW IRON BLOWER.



POSITIVE BLAST.

IRON REVOLVERS,

PERFECTLY BALANCED.

Has fewer parts than any other Blower. Also, Blacksmith Blowers, Portable Forges, Tuyere Irons, and Gas Exhausters.

P. H. & F. M. ROOTS, Manufacturers, CONNERSVILLE, IND.

Send for Priced Catalogue.

No. 7 CANAL STREET.

ICE MACHINE.

The advertiser, owning a first-class Ice Machine, desires a party to take an interest in same and erect it in any good Southern town. Party taking interest to manage the business, or if stock company is organized, owner will sell and take stock.

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GOOD HOUSEKEEPING.

Has never before had so rich a Bill of Fare to lay before its readers as the one prepared for Volume Five. It will contain a new serial by CATHERINE OWEN, entitled

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FROM BABYHOOD TO MEN AND WOMEN; A HOME STORY OF LIFE'S VICISSITUDES." With practical lessons for the guidance of those who don't know, but would like to know, how the Children of the Household should enjoy health and long life.

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An illustrated paper on "Housekeeping in an English Rectory," a very entertaining paper by a resident of a charming English rectory.

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By the world's best authorities on the subject of Coffee Making—Maria Parloa, Marion Harland, Mrs. Helen Campbell, Catharine Owen, Juliet Corson, Mrs. D. A. Lincoln. A group of papers more notable and of greater value to housekeepers than anything of the kind ever published.

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A valuable and unique series from the pen of Juliet Corson, one of the most experienced and authoritative writers on cooking, who has had great success and won much fame for her practical writings, this will be a most welcome series of papers particularly so in homes where there are many mouths to fill and much anxiety of mind as to how to fill them comfortably, conveniently and healthfully. School teachers and students, who "board themselves," and old bachelors and "anxious and aimless" maids, will be interested in the perusal of Miss Corson's "Meals for the Many of Moderate Means."

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CLARK W. BRYAN & CO.

New York Office, 230 Broadway.

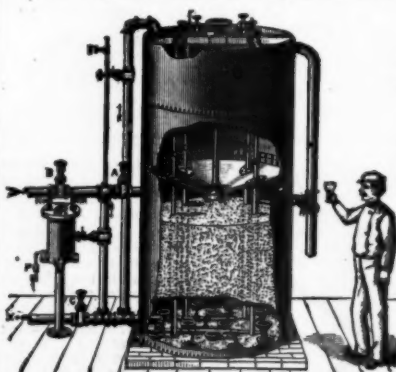
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and Roller Composition. Factory, cor. Light and Mercer streets, Baltimore. Prices: Composition, (bulk) 30 cents per lb.; for Casting, also, 30 cents per lb. Orders by Mail promptly attended to.

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Adapting Nature's Process—Endorsed by the Highest Authority.



A Perfect Water Purifying System.

A thousand or more in use by Cities, Towns, Water Companies, Factories, Mills, Steam Boilers, Public Institutions, Private Residences.

Indispensable to Textile Manufacturers. Adapted to every condition requiring Clean, Bright Water in any quantity. Perfect in Operation, Quickly Cleaned Automatically, Reliable, Indestructible.

Muddy Water Made Clean.

HARD WATER MADE SOFT.

Organic and semi-soluble elements removed. Scale and Mud Deposits in Boilers Prevented. HAS NEVER FAILED. Proven Results Guaranteed. Adopted by Somerville & Baritan N. J. Water Co.; City Water Co., Belleville, Ill.; Water Works, Charleston, W. Va.; Clark Thread Works, Newark, N. J.; Earl & Wilson, Troy, N. Y.; Norfolk & N. B. Hosiery Co., New Brunswick, N. J.; Victor Knitting Mills, and sixteen other knitting mills, in Cohoes, N. Y.; Hon. Daniel Manning, Albany, N. Y.; Western Steel Works, St. Louis, Mo., and hundreds of others. For Circulars, Prices, &c., Address

HYATT PURE WATER CO., Tribune Building, NEW YORK

DECATUR

THE GATEWAY OF ALABAMA.

* A REVIEW. *

The following Enterprises have been located in Decatur, Ala., in the last Three Months :

The Decatur Land, Improvement & Furnace Company was organized on the 11th day of January of the present year. Since that time there have been commenced—

1st. The Charcoal Company's plant, costing \$125,000. Fifty ovens are erected and ready for operation. Employs 200 men.

2d. A 70-ton Charcoal Iron Furnace, costing \$190,000. Gordon, Laurea & Straubel, of Philadelphia, builders. Employs 100 men.

3rd. One 100-ton Blast Iron Furnace, costing \$225,000, by the Decatur Land, Improvement & Furnace Company. Employs 200 men.

4th. The Decatur Iron Bridge & Construction Company, George A. Moar, of Keokuk, Iowa, president; Mr. Robt. Curtis, of Chicago, vice-president. Cost \$100,000. Employs 150 men.

5th. The American Oak Extract Co., J. E. McCarty, of Barksville, W. Va., president. This is the largest enterprise of the kind in the world. Cost \$65,000. Employs 100 men.

6th. Ivens & Son, of New Orleans, Steam Engines and Iron Working Plant. Building is 280 feet by 100 feet. Cost \$100,000. Employs 100 men.

7th. Morse Cotton Compress, 90-inch, from Steers & Co., of New Orleans. Plant costs \$45,000. Employs 52 men.

8th. N. K. Meade & Co., of Cincinnati, Ohio, mammoth Sash, Door & Blind Factory. Cost \$50,000. Will employ 100 men.

9th. Berthard & Co., of Springfield, Ohio, Sash, Door & Blind Factory, costing \$15,000. Employs 20 men.

10th. Brush Electric Light Co., for a thirty light plant. Cost \$8,000. Employs 5 men.

11th. The Ironton, Ohio, Wheelbarrow Company, costing \$25,000. Employs 50 men.

12th. Inman & Co., of New York City, Water Works System. Cost of plant, \$100,000.

13th. Blymeyer Artificial Ice Company, of Cincinnati, to be in operation June 1st. Cost of Plant, \$10,000.

14th. Three Brick Yards are in operation at this place, one Eureka Dry Press Steam Machine, two Anderson Chief Machines. Cost \$40,000. Men employed, 90.

15th. Decatur Lumber Co., B. E. Poley, Auburn, Ill., manager. Carries 500,000 feet of lumber in stock.

16th. Three hundred and fifty carpenters are engaged in erecting cottages.

17th. Natural Gas Co., A. F. Murray, president; H. G. Bond, of New York, treasurer. Capital stock \$200,000.

18th. First National Bank, capital \$100,000. C. C. Harris, president; W. W. Littlejohn, treasurer.

19th. Second National Bank, capital \$100,000. Judge H. G. Bond, president; W. K. Wilson, of Kansas City, treasurer.

20th. Merchants' Insurance Co., of Decatur; capital \$100,000. J. W. Nelson, of Chicago, president; C. Peacher, of Montgomery, secretary.

21st. Decatur Building Association, capital \$300,000.

* Railroad Facilities. *

This town lies on the south bank of the Tennessee river, at the junction of the Louisville & Nashville Railroad and the great East Tennessee, Virginia & Georgia system. Thus, it has already an admirable railroad system, her trunk lines running to all cardinal points of the compass. In addition to these great trunk lines of road, the Rome & Decatur Railroad, from Rome, Ga., northwest, to Decatur, is being rapidly built, and will soon be completed.

Charters for two other roads have been obtained, one running southwest to Aberdeen, Miss., to connect with the Illinois Central system, the other running south and west to Selma, Ala., to connect with the Mobile & Ohio at Columbus, Miss.

* Decatur is one of the Healthiest Cities in North Alabama. *

The Health Officer's report for Morgan County shows that the death rate among the whites in Decatur for the year 1886 was only 11 in 1,000.

THIS IS AS GOOD A REPORT AS ANY TOWN IN THE STATE CAN SHOW.

ESTABLISHED 1852.

CAPITAL STOCK \$125,000.00.

INCORPORATED 1848.

"STILL AHEAD AND BOUND TO WIN."

The James Ohlen & Sons Saw Manufacturing Co.

Standard, Solid and Inserted Tooth Saws, Mill, Muley, Gang, Drag, Cross-Cut and Band Saws.

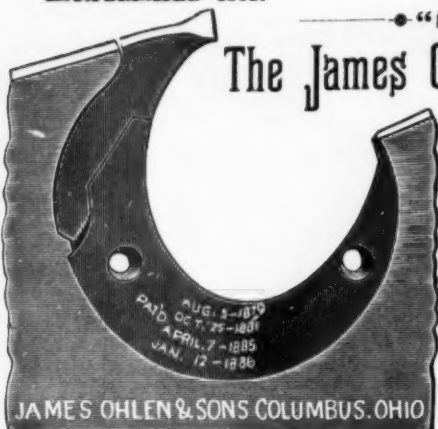
COLUMBUS, OHIO.

WHAT PEOPLE SAY:

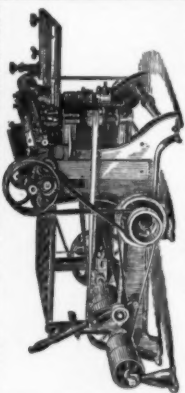
GAINESVILLE, VA., Feb. 1, 1887.
 "I am running one of your Chisel-Tooth Saws. Have been working in saw mills for past five years, but never found a saw equal to yours. Please send me a catalogue. W. A. Williams.
 Wise & Nelson, Jonesboro, Ind., Feb. 1, 1887, write: "The 64-in. gauge solid saw is doing splendid work; inclosed find draft for same. Make and ship us 12 gauge, same hand as other, soon as possible.
 B. R. Edwards, Jacksonville, Fla., writes: "Saw received. Has been running steadily and not made one bad line. Draft inclosed."

The Above Cuts Show Our Champion Chisel-Tooth Saw.

It has been thoroughly tested on steam and friction feed, in all kinds of timber, and we guarantee to our patrons perfect satisfaction in every respect. Each set of teeth will cut from 100,000 to 250,000 feet. We advertise only practical possibilities, and stand by what we say, and guarantee that any saws bearing our trade mark (James Ohlen & Sons) are equal, if not superior, to any others in every respect, and will give satisfaction to those using them.
 Write for Catalogue and mention this paper.



Economist Planer and Matcher.

PRICE \$325.00
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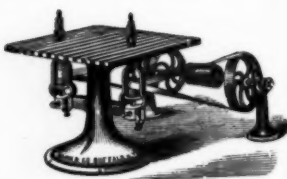
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176 Terrace St., Buffalo, N. Y.

A FULL LINE OF

Wood-Working Machinery,

Designed Expressly for

SOUTHERN TRADE.

SPECIAL DESIGNS IN

Re-saws, Planing Machines, Joint-
 ers, Band-Saws, Etc.

Send for Catalogue and Prices before purchasing elsewhere. Mention this Paper.

SNIGGS & CO., - - Buffalo, N. Y.

WORKSHOPS

WITHOUT STEAM POWER

SHOULD HAVE

BARNES'

Patent Foot Power Machinery, COMPLETE

Outfits for actual workshop business.

With them Builders, Cabinet
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 ers compete with steam power.
 Machines on trial if desired.

Proof of value, prices, full
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 W. F. & John Barnes Co.
 Rockford, Ill.
 Address No 221 Ruby St.



Barnes' Pat. Upright Drills
 20-inch Swing, with both
 Worm and Lever Feed.



Barnes' Pat. Engine Lathe
 15 inch swing, 6-foot or 8-foot Bed.
 These machines are made a specialty
 in our factory, they have advantages
 not found in other machines in this
 line. It will pay parties desiring to
 purchase, or know more about this
 class of machines, to send for full
 description and prices.
 W. F. & JOHN BARNES CO.
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STEARNS MFG. CO., ERIE, PA.

BUILDERS OF

Capacity 15,000 to 450,000 feet per day. CIRCULAR SAW MILLS Complete outfits planned and furnished.

ENGINES, 15 to 800 Horse-Power. BOILERS OF IRON OR STEEL.

BAND SAW MILLS, with Friction or Steam Feed.

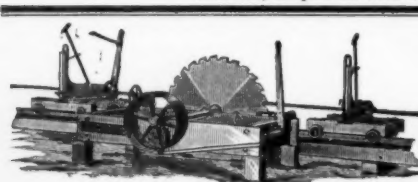
STEARNS' Fractional Head Blocks, Edgers, Cut-Off Saws, Trimmers.

The Wilkin Pony Gang. No foundation. Capacity 30,000 to 40,000 feet of Flooring per day. The Wilkin Heavy Gang Saw Mill for large mills. Lath and Picket Mills, Bolters, Conveyers, &c.

ESTABLISHED 1845. The Oldest Saw Manufactory in the South.

TOLAND & SON, Front & Low Streets, Baltimore.

Particular attention paid to Large Circular Work. We warrant our Circular Saws to stand more strain, without buckling or cracking, than any other make. We make all kinds of Tough-Tempered Circular, Mill, Cross-Cut, Band and Drag Saws, Planer Knives, Ensilage, Feed, Tobacco, Meat Choppers, and other Knives made to pattern, and Moulding Bits warranted equal to the Best. N. B.—We make no charge for hammering any Large Circular Saw that we can't make "go." GIVE US A TRIAL, and for toughness of temper, durability and quality of material, compare our work with the best you have ever used.



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Buckeye Portable Saw Mills. Best and Cheapest Made.

Write for description and prices. It will pay you. Mention this paper.

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AND EVERYTHING PERTAINING TO

SAW MILL MACHINERY,

Also Builder of PATENT GANG BOLTER,

Which will Cut a Slab any desired number of pieces by once passing through.

Also GANG EDGERS AND LATH MILL MACHINERY.

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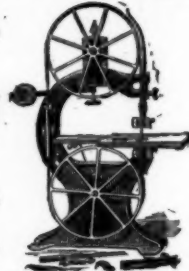
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Planing Mills, Furniture and Chair Factories,
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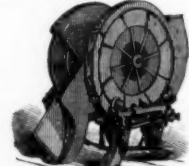
Write for our latest Catalogue and Price List. Correspondence solicited.



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BARREL MACHINERY.



Chamfering, Howeling and Crozing Machines, Stave Dressers, Stave Jointers, Hoop Drivers,
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 Stave Cutters, Leveling and Trussing Machines, Cylinder
 Stave Saws, Heading Saws, etc.

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Correspondence solicited. Mention this paper.

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MANUFACTURERS OF EVERY VARIETY OF

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Saw Mill Supplies.

Special attention given to Repairing. AGENTS FOR

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Large and well-selected stock at low prices and on liberal terms. Write for catalogue.

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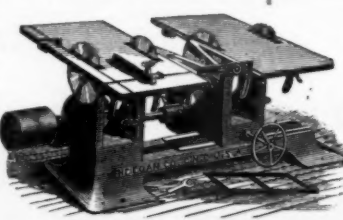
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THE EGAN CO.

228 to 248 West Front St. Cincinnati, O., U. S. A.
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New Double Cut-Off Saw.

— DAVID BOYLE, —

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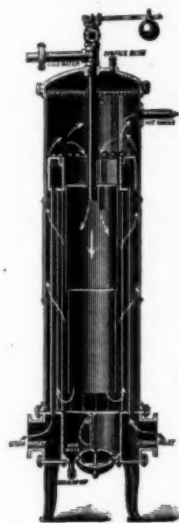
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Has a positive device for the prevention of Back Pressure.
Purifies the water better than any other exhaust steam heater.
Has a positive circulation, making all parts of the heating surface equally effective.

Brass Tubes Free to Expand.

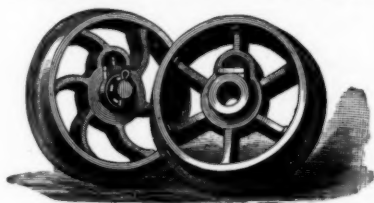
Efficient and Durable.

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The Goubert
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Patent Tram Wheel



THE MOST PERFECTLY

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IN THE MARKET.

Will run two months with one filling of the reservoir. The economy in oil by using these wheels pays for them. For particulars and prices of Wheels, Axles and Mining Cars, address,

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Patented April 18, 1871. Retained July 25, 1878.
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Adapted for Warehouses, Stores, Factories, Hotels, Public Institutions, and every place where merchandise, &c., is transferred from one story to another.

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For Sale Cheap ON LONG TIME.

1 32 in. x 32 in. x 9 ft. heavy, second-hand planer.
1 Davis Keyseater, 1/4 in. to 1 in., Keyseater, Bargain.
3 Steam Pumps, second-hand. All sizes.
1 Chasing Lathe, 17 in. x 5 ft. Bed. New Haven.
1 No. 4 Sturtevant Blower. Good as new.
1 Second-hand Corn Grinding Mill.
1 10 Horse Power and 1 12 Horse Power Portable Engine and Boiler on wheels, second-hand.
Vertical Engines, 1 to 20 Horse Power.
Horizontal " 6 to 90
Vertical and Horizontal Boilers, either iron or steel—any horse power desired.
Round and Square Tanks—all sizes.
Saw Mills and Planing Mill Machinery and Machine Shop Tools.

Also,
Shafting, Pulleys, Hangers, Belting, Belt Fasteners, Lace Leather, Belt Grease, Journal Grease, Pipe, Tubes, Fittings, Valves, Pipe Tools, Files, Bolts, Set and Cap Screws, Wrought Rim Pulleys, Sheet Gum and Packing, all kinds. Boiler Scale Preventive, Gardner Governors 1/2 in. to 4 in. in stock.
Headquarters for Gas Engines.
One Sturtevant Blower, Monogram Pattern.

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Works, 4, 6, 8 & 10 West Street, Cleveland, O.

Manufacturers of Machines for Making Ice and for Refrigerating Breweries, Pork Houses and buildings of all kinds requiring a steady, low temperature. Over 100 of our machines now in use. Send for any particulars desired. P. O. Box 92, Cleveland, Ohio, or P. O. Box 348 Cincinnati, Ohio.

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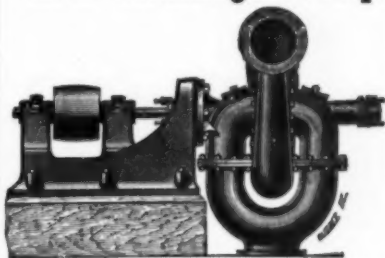
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—WEBBER'S— Melted Centrifugal Pump.



Giving greater efficiency than any other Centrifugal Pump in the market. Send for catalogue.

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AGENTS—J. Post, Jr. & Co., Boston, Mass.; Fairbanks & Co., St. Louis, Mo.; H. P. Gregory & Co., San Francisco, Cal.; R. H. Buchanan, Montreal, P.Q.

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DRIVING BELTS.
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Also Manufacturers of the
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Fine Iron and Brass Castings Made to Order.



Manufacture those celebrated
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Engines and Boilers, Mills of all kinds, Marine
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NEAR LIGHT, BALTIMORE.

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Electric-Lighting Plants

For Sale Cheap.

Used three months during one season
of a New England Exposition.

GOOD AS NEW.
FULLER DYNAMOS,

One of fifty (50) arc lamps, one of twenty-
three (23), and one of nine (9.)

All in First-Class Order
AND ALL COMPLETE.

WILL BE SOLD AT ONE HALF OF FIRST COST.

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Care of MANUFACTURERS' RECORD,
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FOR THE BEST MACHINERY

—FOR—
SHINGLES,
HEADING and STAVES,
And Improved
GAGE LATHES

For
Turning Handles, Etc.

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TREVOR & CO
LOCKPORT,
N. Y.

Sweet's Patent Measuring Machine.



Measuring Screw 10, 16 or 30 Threads to the inch,
graduated to read thousandths or 32ds
without calculation.

IT WILL PAY YOU TO USE THIS MACHINE
Upon COMMON WORK for the TIME it will
save. Upon FINE WORK for the ACCU-
RACY it will secure. It is the only Micrometer
that will not lose its accuracy by use.

We will send one of these machines to reliable par-
ties on trial. Those who use it would not be without
one for many times its cost. Address,

SYRACUSE TWIST DRILL CO., Syracuse, N. Y.

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Covert Adjustable Web Halter



The Best & Most Convenient
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With Bit and Snaps it makes a
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No Leather. No Stitching.

Guaranteed to Give Perfect Satisfaction.

The Greatest Emporium in the World for the best Snaps,
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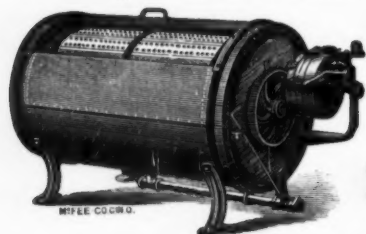
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For Sale by all Jobbers Handling this Class of Goods.

Laundry Machinery.

Largest Stock. Latest Improvements. Fullest Line.



Washing Machines,
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BOILERS AND ENGINES.

—OUTFITS FOR—
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—A SPECIALTY.—

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WIRE GOODS OF ALL KINDS,
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WIRE CLOTH

Galvanized,
Iron and Steel,
Brass & Copper.

ALSO A FULL
STOCK OF

Galvanized Poultry Netting.

WRITE FOR DISCOUNTS.

THE "MASON-ANDREW"

Is the Only Perfect FRUIT JAR in the World.

It is impossible to reliably Preserve Fruits in any Jar that will not keep them covered by the Syrup. This is the ONLY JAR that does it. (See illustrations.)
(Protected by Four United States Patents.)



The Mason Fruit Jar with "Mason-Andrew Porcelain Disk Immerser Cover."

This is a simple invention for the purpose of supplying a positive necessity to effectually preserve fruits, which has not been secured by any former method. This will be immediately understood and recognized on reference to the illustrations and the following facts:

All fruits, being but partially solid, are of lighter gravity than the syrup in which they are preserved, and consequently must rise or float to the surface or air cavity always to be noticed in every jar above the level of the syrup; the fruit there moulds and putrefies because it is not being covered or drowned in the syrup as required, and is the great cause for spoiled fruit, which is always wrongfully attributed to a want of care in the person preserving. Frequently, while the fruit appears to be good, it is found on opening to be unpalatable and wholly spoiled from the causes named. This cover overcomes all objections in this way.

The Andrew Porcelain Disk Immerser is made a part of the regular Mason or other Fruit Jar Covers (see illustrations), thereby forming a perfect porcelain lining, and also extends down into the jar a sufficient distance to keep the fruit drowned below the syrup level; this insures that the fruit will always remain covered by the syrup, as intended. The results secured recommend this Immerser to the most skeptical, and insures its use wherever it is known.

The Covers are furnished complete with Rubbers, put up in the best manner, with reliable directions for preserving fruits and vegetables. They fit all Mason Jars.

The Jars are made in Green, also Flint and Amber Color Glass, in all sizes, and at the same prices as the best self-sealing Jars.



The Mason Improved Fruit Jar, with "Andrew All Porcelain Immerser Cover and Metal Ring."

FOR SALE BY THE FOLLOWING:

Ramsay, Baker & Co., Balto., Md.	Missouri Glass Co., St. Louis, Mo.
T. G. Evans & Co., Pittsburg, Pa.	H. & N. Russell & Day, New York.
A. J. Weidener, Philadelphia, Pa.	Fisher, Son & Ruth, Phila., Pa.
Bellaire Stamping Co., Bellaire, O.	And many others.

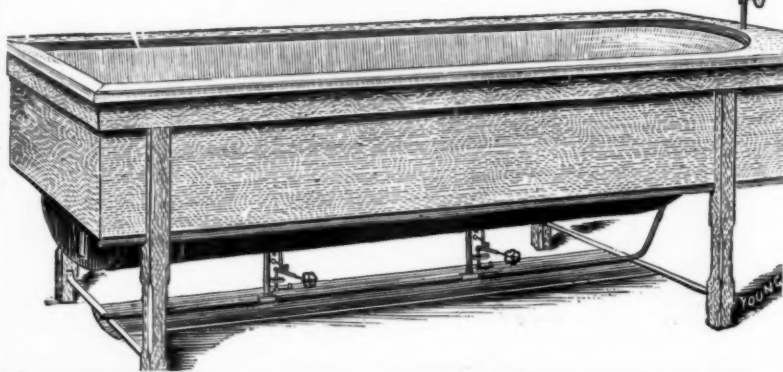
DAY'S SELF-HEATING BATH-TUB,

Heated by Gas, Gasoline or Kerosene.

MANUFACTURED BY

THE DAY MANUFACTURING CO., - Detroit, Mich.

Send for Descriptive Circular.



WIER & WILSON

DIRECT REPRESENTATIVES:

HUBBARD & CO.	Axes, Shovels, Hoes and Saws.
AMERICAN SCREW COMPANY,	Screws, Bolts, Wire Nails, &c.
A. FIELD & SONS,	Tacks, and Nails.
WHEELING HINGE COMPANY,	Wrought Goods, Butts, &c.
OLIVER BROTHERS & PHILLIPS,	Heavy Hardware.
THE SHELTON COMPANY,	Philadelphia Carriage Bolts.
J. P. TOLMAN & CO.	Braided Sash Cord.
JOHN SOMMERS' SON,	Faucets.
NICHOLSON FILE CO.	Files.
HARTFORD HAMMER CO.	Hammers and Sledges.
THE HENRY O. HART MFG. CO.	Screen Frames, Lull & Porter, Blinds, Spring Hinges, &c.
LAWSON & BRENNER,	Forks.
HOLROYD & CO.	Stocks and Dies.
BAKER CHAIN & WAGON IRON MFG. CO.	Wagon Hardware, Links, Rings, &c.

Office, No. 14 W. German Street,

CHARLES H. WIER.
JOHN K. WILSON.

BALTIMORE, MD.

Bessemer Pig Output.

The extraordinarily heavy production of pig iron in the United States this year, together with large importations, has drawn the attention of the trade at home and abroad. The home demand for steel, for rails and other purposes, has been enormous; but it has been only in a general way that those most interested have realized that the home output of Bessemer pig for steel purposes is increasing so rapidly.

Bessemer pig iron is made from ores low in phosphorus. The better ore deposits of this character in the United States are in the Lake Superior region, in New York, New Jersey, Pennsylvania, Virginia and elsewhere; more recently high grade ores have been found in Alabama. Cuban and Spanish ores too are largely used to make Bessemer pig. The heavy demand for Bessemer pig iron of late is due of course to the growth of the demand for steel, for making which ordinary foundry pig is not used. Cleveland and Pittsburgh contracts for Lake Superior ores will greatly exceed those of last year. The official bulletin of the American Iron and Steel Association, May 4, notes that our productive capacity has been so enlarged in all branches in the past year that it has been easy to produce in some, but not in all of them, "a little more steel and iron than the country wants."

Evidently, one of the lines in which we have not produced in excess of home demands is that of Bessemer pig iron. The importations of pig iron of all varieties during the first three months of 1887 and of 1886 were, in gross tons:

	Imports.	1887.	1886.
Pig iron, all kinds, tons.....		93,590	74,685
*Scotch foundry pig, tons.....		13,000	18,000
Approximate Bessemer pig and spiegel importations.....		80,590	56,685
*Estimated.			

Here we find a heavy increase in the demand for foreign Bessemer pig, due, of course, to inability of home furnaces thus far to meet the requirements. In addition to importations of Bessemer pig, receipts of ingots, blooms, slabs, billets and bars of steel from abroad from January 1 to March 31, 1887, amounted to 90,285 tons, as compared with 22,300 tons in a like portion of 1886, or four times as much, which in turn points to what might have been made at home with a sufficient output of raw material of the required variety.

In order to learn as near as may be the total production of Bessemer pig iron in the United States—concerning which no data worth reproducing have been available—Bradstreet's has made direct inquiry of furnace proprietors and agents. On April 1 last the Pittsburgh Iron Manufacturer reported 353 pig-iron furnaces in blast in the United States. We have received replies from over 300 furnaces, 86 per cent. of the total at work, but which produce a much larger proportion of the total quantity of pig iron turned out from week to week, more than 95 per cent. The returns are of value as furnishing a list of furnaces engaged on Bessemer iron for steel purposes, others, of course, making foundry pig. The totals of weekly production of Bessemer are compared with like aggregates during December, 1886, when the iron and steel revival had established itself, as well as with like totals one year ago, during April, 1886, prior to the late period of exceptional activity. These figures are again contrasted with accepted totals of all domestic pig iron, weekly, during April, 1887, and in December and in April, 1886, to show the proportion of increase of foundry and of Bessemer pig iron. Giving total gross tons of Bessemer pig-iron production weekly by States, with number of furnaces reporting, the following tabular exhibit is formed:

States.	Weekly Prod'n Bessemer Pig.	No. April, 1887.	Dec., 1886.	April, 1886.
Pennsylvania.....	47	25,480	20,185	17,725
Ohio.....	8	6,826	6,000	5,390
Illinois.....	13	13,250	9,530	10,600
Missouri.....	5	2,050	1,840	750
New Jersey.....	2	1,475	450	100
Wisconsin.....	3	939	555	555
West Virginia.....	3	1,400	1,800	1,985
Michigan.....	3	585	1,630	585
New York.....	3	600	460	810
Miscellaneous.....	7	2,910	2,670	2,135
Total Bessemer production reported to Bradstreet's.....	92	55,512	45,189	40,435
Total reported production pig iron of all kinds.....	353	137,523	127,660	104,867

The increase in total weekly production of all varieties of pig iron within a year is say 32,000 tons weekly; in that of Bessemer pig, 15,000 tons. As compared with the production in December, 1886, the increase in the weekly output in April, 1887, of all classes of pig iron was less than 10,000 tons, and of Bessemer pig iron alone, 10,200 tons. It is also of interest to note that the proportion of Bessemer pig produced one year ago to the total output was about 39 per cent., while in December last it was but 35 per cent. and last month 41 per cent. Reports of Bessemer production received are believed to include all producers of note, with the single exception of the Cambria Co., Johnstown, Pa.

The outlook, so far as indicated, is for a further increase of the production of Bessemer pig by domestic furnaces. One Ohio furnace will blow in next August and turn out 700 tons weekly, and another 500 tons, about the middle of May, as soon as new ore arrives from Lake Superior. One in West Virginia will go to work soon, with 100 tons capacity weekly. A third Ohio furnace was to go to work on Bessemer, May 2, alternately with common iron; capacity 700 tons weekly. A Missouri furnace will blow in on Bessemer after July 1, with 1,400 tons weekly capacity. The proprietor of a Baltimore furnace company writes us: "We should be much pleased to hear from you if you learn of any manganese which can be delivered here at a reasonable price, as we would be very much pleased to put one stack on spiegel." The above point to a profitable increase in the weekly output of Bessemer pig iron by autumn of 4,000 tons, and no special effort was made to learn what furnaces out of blast, or not on Bessemer, would change to Bessemer pig. But one furnace in the South (Alabama) reports producing Bessemer iron, but with the valuable Bessemer ore deposits in Alabama and in South Carolina, Chattanooga and Birmingham and Bessemer promise to do something in this direction.

The outlook therefore is for an ultimate check to the heavy receipts of British Bessemer pig iron. It has been pointed out that the bulk of that coming here of late was Bessemer. And the results of Bradstreet's investigations, given herewith, show rapid progress in the matter of checking them, so long as prices at home can compete with those of foreign, "delivered and duty paid," as at present. This hold true of English steel rails and unwrought steel quite as much, which include about all the objectionably heavy items of late imports of iron and steel, except tinplates (iron) and iron ores.—Bradstreet's.

Important.

When visiting New York city, save baggage express and carriage hire, and stop at the Grand Union Hotel, opposite Grand Central Depot.

600 handsomely furnished rooms at \$1 and upwards per day. European plan. Elevators and all modern conveniences.

Restaurants supplied with the best. Horse cars, stages and elevated railroads to all depots. You can live better for less money at the Grand Union Hotel than any other first-class hotel in the city.

THE American House, Boston, has always been noted for the invariable excellence of its table, and never more than at present. Mr. Rice well knows that it is quality rather than quantity that pleases the experienced guest.

THE Palace Hotel, Cincinnati, Ohio, is the best, finest furnished and most complete \$2.00 hotel in America. 250 rooms; 140 front rooms. Complete fire apparatus and iron balcony fire-escapes.

If you are not already a subscriber to the BALTIMORE MANUFACTURERS' RECORD, send us \$3 and you will receive it regularly for one year, or six months for \$1.50.

TRADE NOTES.

HILL, CLARK & CO., of Boston, Mass., have been awarded the contract to furnish the machine shop tools and outfits for the Southern Cotton Oil Co. for their machine shops at the following places: Houston, Texas, Little Rock, Ark., Memphis, Tenn., New Orleans, La., Montgomery, Ala., Atlanta, Ga., Savannah, and Wilmington, N. C. This outfit of tools will give the Southern Cotton Oil Co. all the tools necessary to make their own repairs at each of their mills.

THE M. C. Bullock Manufacturing Co. of Chicago, have removed their office to the Phenix Building opposite Grand Pacific Hotel.

MESSRS. WRIGHT, ADAMS & CO., of Quincy, Ill., have issued a catalogue of their automatic cut off and standard slide valve engines, in which these engines are fully illustrated and described, their many points of merit being clearly explained. A large part of this catalogue is devoted to rules and tables which are of much value to all interested in engines and boilers. A copy of this catalogue will be sent upon application.

MESSRS. THOS. K. CAREY & CO., of Baltimore, dealers in leather and rubber belting, machinists' and cotton and wollen mill supplies, lathes, planers, drills, pulleys, shafting, &c., have issued the following circular: "We wish to inform our customers that we have lately become sole agents of the well-known Lathe & Morse Tool Co., of Worcester, Mass., for the States of Maryland, Virginia, West Virginia, North and South Carolina, Georgia and District of Columbia. We are prepared to show you at our warehouse a line of lathes, planers, drills, &c., for iron working, or to send you illustrated catalogue and prices. As our salesmen are traveling all through the above-named States, we will be glad at any time to send an experienced machine man to anyone contemplating the purchase of such tools. Though we have a combination of first-class agencies such as few (if any) of our competitors can lay claim to, and though we give our business our constant and close personal attention, we believe that the growth of it is due largely to the facts that we deal only in first-class goods, that we are satisfied with moderate profits, and that we carry such stock as enables us to fill most orders promptly. We are convinced that we have made no mistake in adding to our stock a better grade of tools than as a rule are sold in this market. We are prepared to furnish estimates for pulleys, shafting, and complete outfits for machine shops, and solicit a share of your orders."

"HOW TO KEEP BOILERS CLEAN" is the title of an instructive little book of 85 pages which gives much important information for steam users, owners and engineers. It will be mailed free to any one sending a 1-cent stamp to Jas. F. Hotchkiss, 120 Liberty street, New York.

WE call attention to the advertisement of The Missouri Glass Company, of St. Louis, Mo., which appears in this issue. This well-known concern was established in 1856, and have steadily increased their business until their goods are shipped to all parts of the country. They are now preparing to fill orders for the coming season. Their patent glass fruit jars are well known to the trade and very popular in fruit countries, being, it is said, the only jar which keeps the fruit submerged by the syrup and preventing it from becoming mouldy or spoilt from exposure or age. The Missouri Glass Co. also manufacture a full line of glassware, lamps and bottles, queensware, china, etc. Hardware dealers, grocers, etc., would do well to correspond with this concern and get catalogue and prices.

THE cotton-seed oil company which is familiarly known in this section as "Tompkins & Oliver's company," and of which Henry C. Butcher is president, has closed a contract with V. Merrell, of 149 North Third street, Philadelphia, representing the Abendroth & Root Manufacturing Co., of New York, for eight water tube boilers, representing 3,200 horse-power. This is one of the largest boiler contracts ever made in this country. These boilers are made by the same firm that furnished the boilers for the Charlotte cotton compress, though they are of improved pattern and possess many advantages over the old make of boilers.—Charlotte Observer.

List of Patents.

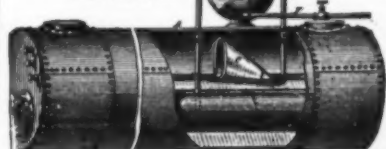
The following Patents were granted to citizens of the Southern States, bearing date May 3, 1887. Reported expressly for this paper by Louis Bagger & Co., Mechanical Experts and Solicitors of Patents, Washington, D. C.

Allfree, J. B., Cumberland, Md. Grinding roll.....	362,196
Becker, Lothar, Galveston, Texas. Machine for cutting off the solid butts of grain stalks.....	362,244
Betten, J. C., Eureka Springs, Ark. Bustle.....	362,255
Boudreaux, Leandre, Philbodeaux, La. Valve attachment for steam cylinders.....	362,418
Bowick, E. M., Charleston, S. C. Machine for crushing ores.....	362,198
Cheshire, J. L., Argus, Ala. Car coupling.....	362,425
Cook, Frederic, New Orleans, La. Bagasse furnace.....	362,362
Danas, Marie, New Iberia, La. Cotton scraper.....	362,363
Davis, J. H., Danville, Ky. Car coupling.....	362,353
Dudley, W. L., Covington, Ky. Depositing iridium and product of the same.....	362,257
Durien, Arthur, New Orleans, La. Portable switch table and car replacer.....	362,259
Emmatt, W. M., Baltimore, Md. Soldering machine.....	362,150
Eakew, S. V., Sugar Valley, Ga. Evaporator for sugar-making purposes.....	362,068
Fitch, W. E., Louisville, Ky. Fire-place grate.....	362,265
Green, W. R., and N. J., Kingston, Tex. Balancing press.....	362,272
Hagerty, J. S., Baltimore, Md. Car heater.....	362,314
Higdon, J. H., Evergreen, Ala. Trace fastener.....	362,080
Kauffman, C. C., New Orleans, La. Ramie, jute, &c., stripping machine. (2 patents).....	362,385
Kauffman, C. C., and J. Austin, New Orleans, La. Treating ramie and other fibers.....	362,387
Kulach, C. D., Baltimore, Md. Hose reel.....	362,450
Lane, F. G., and C. S. Atcheson, San Antonio, Tex. Kitchen cabinet.....	362,388
Linnell, P. E., Charlotte, N. C. Speed gearing for bicycles.....	362,220
McDaniel, H. C., San Saba, Tex. Table.....	362,223
McGowan, Alex., and F. T., Houston, Tex. Cotton or hay press.....	362,299
Molony, J. J., Covington, Ky. Can opener.....	362,389
Newcomb, W. W., Bradfordsville, Ky. Coffee pot.....	362,105
Staggs, B. F., Hendersonville, N. C. Churn.....	362,400
Taylor, Ezekiah, Shadwell, Va. Hedge fence.....	362,332
Verdel, E. F., Memphis, Tenn. Machine for tin-wiring the edges of sheet-metal vessels.....	362,471
Warren, Adda J., New Orleans, La. Foot scraper.....	362,237
Watson, D. R., Ballinger, Tex. Bath tub.....	362,340
White, W. P., Louisville, Ky. Animal trap.....	362,343

A. P. THAYER,
Solicitor of U. S. and Foreign
PATENTS,
No. 86 Astor House, New York.

Experience of Over 20 Years.

HOW TO KEEP BOILERS CLEAN"
And Prevent SCALING, FOAMING, BURNING. Price \$75.00. Removes Lime Oil, Magnesia, without use of Compounds.



Hotchkiss Mechanical Boiler Cleaner,
Illustrated in an eighty-eight page book, which will be mailed FREE, to any address, by JAS. F. HOTCHKISS, 120 Liberty St., N. Y. Beware of Infringers.

[Special Correspondence MANUFACTURERS' RECORD.]

CROSS PLAINS, ALA., May 9, 1887.

This is a good location for all kinds of manufacturing enterprises—timber abundant, water plentiful, and coal mines within 20 miles, directly on railroad. We have abundant deposits of manganese, red and brown hematite and lead ores; also fine quarries of granite, slate, limestone and sandstone. These deposits lie within two miles of our town. The manganese ore has been pronounced very rich, and nearly all of these deposits are on or very near the railroad.

The East Tennessee, Virginia & Georgia and the East & West Railroads pass directly through our town, affording all necessary railroad facilities. We have a chain of magnificent mountains almost completely encircling us, while the town is situated in a beautiful valley, very fertile, the lands being adapted to all kinds of crops. The scenery is grand beyond description. Health as good as can be found anywhere. We have two good schools, four churches, and a population approximating 1,000 of intelligent, moral and clean people. This place is in Calhoun county, just 23 miles northeast of the far-famed Anniston. Next to Anniston, we have the best railroad facilities of any town in this section, and confidently expect that the road from Carrollton, Ga., to Decatur, Ala., will pass through our town, for the reason that the only gap in the mountain is just above us, nearly on an air line, with Carrollton, which renders this the only practicable route for the road. If it does not pass through this natural gap the mountain will have to be tunneled at an enormous expense; so we think we stand a good chance of getting this road.

We already have a coach factory which turns out as fine work as any to be found South. Arrangements are now on foot to establish a plow factory, which will give employment to many. We also expect a foundry to be established here at an early day. Mr. E. T. Henderson is proposing to establish a sash and blind factory here, believing this about the best point for such an enterprise. The Cross Plains Brick Factory is under full headway, with all necessary machinery for turning out bricks.

As we have inexhaustible deposits of the finest ores and plenty of timber and water, we should also have at least two furnaces. Capitalists would do well to examine these advantages. All the land needed for sites will be donated free of charge.

A company of capitalists from New Orleans, Mobile and Montgomery will arrive here on a prospecting tour next Thursday, the 12th inst. M. T. MOODY.

SHELBY, N. C., May 3, 1887.

Editor Manufacturers' Record:

The Cleveland Mica Co. was organized in March last by contractors of the Charleston, Cincinnati & Chicago Railroad, with office at Shelby, N. C., for the purpose of mining mica and other valuable minerals which they may discover in the counties of Cleveland, Rutherford and Polk, and on the lines of the C. C. & C. R. R., the Carolina Central and the Western North Carolina Railroad. We have been successful in finding mica, plumbago or black lead, and asbestos of the purest kinds in large quantities. We have mined some corundum, tourmaline, garnet and rutile. CLEVELAND MICA CO.

UNION CITY, TENN., May 5, 1887.

Editor Manufacturers' Record:

Our city contemplates building courthouse and jail, and will build this season. Cost not to exceed \$15,000.

S. WADDELL, Manager.

LYNCHBURG, VA., May 7, 1887.

Editor Manufacturers' Record:

The Tazewell Coal & Iron Co. was organized on the 23d of April.

FRANK HUGER, President.

Planing Mill.

SCOTTSVILLE, KY., May 5, 1887.

Editor Manufacturers' Record:

A new planing mill has lately been put up in this place, operated and owned by Thompson & Davidson. Richard & Bro. own and are operating a planing mill about two miles from town. T. CARPENTER.

Will Erect a Factory.

HEARNE, TEXAS, May 5, 1887.

Editor Manufacturers' Record:

The Brady roller press is now being manufactured at Huntsville, Texas. We expect to erect a manufactory here.

E. F. STEVENS, Secretary.

To Erect a Cotton Compress.

NAVASOTA, TEXAS, May 4, 1887.

Editor Manufacturers' Record:

A company has been formed here to build a cotton compress. The incorporators are I. M. Camp, F. W. Brosig, Jos. Brooks, etc. It will be erected at an early date, I think.

W. H. BROWN.

Erecting Ice Machinery.

SAN ANTONIO, TEXAS, May 3, 1887.

Editor Manufacturers' Record:

We are erecting in addition to the Arctic ice machine that we have in our brewery, one 30-ton Linde machine; mostly, however, for the use of cooling our cellars. We, of course, also sell ice to our customers.

SAN ANTONIO BREWING ASSOCIATION,

F. H. HART, Secretary.

RUSK, TEXAS, May 4, 1887.

Editor Manufacturers' Record:

Mr. Blevins is now in Rusk purchasing mineral land for an immense iron foundry to be erected by St. Louis capitalists.

CHAS. H. MARTIN.

To Erect Wood-Working Machinery.

TULLAHOMA, TENN., May 6, 1887.

Editor Manufacturers' Record:

I will some time during the coming summer erect some wood-working machinery.

H. P. DEWEY.

Will Erect Saw and Planing Mill.

MONTGOMERY, ALA., May 2, 1887.

Editor Manufacturers' Record:

We will put in a new saw mill and planer at Live Oak in two weeks; capacity 25,000 feet per day. T. F. THOMASSON & SON.

SALISBURY, N. C., May 5, 1887.

Editor Manufacturers' Record:

The Yaddin Mining & Milling Co., of Baltimore City, has been organized. Our object is to buy gold ores, or treat them according to a fixed schedule of prices per ton. The mill is situated about two miles south of this city, just off from the railroad, and we have a capacity for treating 12 to 15 tons per day by the Mears' chlorination process, which has been effectually tried at our mill and proved to do all we claim for it. It is by no means an experiment, as we have worked large quantities there satisfactorily.

H. G. TYSON.

AMERICUS, GA., May 4, 1887.

Editor Manufacturers' Record:

Gas works are being discussed, but not certain yet whether we will get them. We are sure of water works, which will soon be ready.

JOHN WINDSOR.

WILMINGTON, DEL., May 9, 1887.

Editor Manufacturers' Record:

We shall only blow in one furnace this year, viz: Walton furnace, Wythe county, Va.

LOBDELL CAR WHEEL CO.

Steam Saw Mill.

LIVE OAK, ALA., May 4, 1887.

Editor Manufacturers' Record:

There will be a steam saw mill built at Live Oak station, on the M. & F. Railroad, two miles from Live Oak, in a short time, by Mr. Thomasson and his sons.

W. W. PERDUE.

MANSFIELD, LA., May 5, 1887.

Editor Manufacturers' Record:

The De Soto Coal & Iron Co. has been organized with a charter, capital stock \$150,000. Will commence work when \$4,000 stock is subscribed. Boling Williams is president; Marmaduke Ricks, vice-president; Benj. F. Jenkins, secretary and treasurer. The purpose of the company is to bore, drill and explore at greater depth for coal and iron that crops out in many places over the country in ravines and creeks, to examine quality of coal, with view of developing the mineral resources of this section. It is believed good steam and gas coals will be developed of splint quality.

BOLING WILLIAMS.

Building Jails in Texas.

PALESTINE, TEXAS, April 30, 1887.

Editor Manufacturers' Record:

The last two contracts I have closed are a jail at Boerne, Kendall county, Texas, to cost \$9,825 and to be finished on or before September 7, 1887; the jail at Henderson, Rusk county, Texas, same to cost \$14,975 and to be finished November 1, 1887. Our firm do nothing but jail work, and are, in addition to the two jobs above reported, building a jail at Sherman, Texas, to cost \$95,000; one at Mt. Pleasant, Texas, to cost \$10,500, and various other points all over the country. Among other jobs in progress we are building the United States jail at Fort Smith, Ark.

PAULY JAIL BUILDING & MFG. CO.

S. N. PICKENS, Agent.

PARKESBERG, FLA., May 6, 1887.

Editor Manufacturers' Record:

The Parkesberg Land Co. say they will build a railroad this summer. They have measured the proposed route and find it 4 1/4 miles.

T. W. HOOD.

To Build a Hotel.

JACKSONVILLE, ALA., May 2, 1887.

Editor Manufacturers' Record:

A hotel will be built at this place. The cost of hotel will be \$20,000.

B. GASTON.

Increasing Capacity.

SALISBURY, N. C., May 9, 1887.

Editor Manufacturers' Record:

We are increasing our capacity and have added smoking tobacco machinery.

FOARD & RICE.

Will Rebuild Saw and Planing Mill.

WALHALLA, S. C., May 7, 1887.

Editor Manufacturers' Record:

I will rebuild at once.

R. M. RICHARDSON.

A Wood-Working Factory.

ALTAMONTE, FLA., May 5, 1887.

Editor Manufacturers' Record:

We are now erecting the necessary buildings and getting machinery in position to establish at Longwood, Orange county, Fla., a plant fully equipped with hot blast, dry kilns and all necessary machinery to manufacture house-building lumber. We are also prepared to make plans for and contract to build any class of houses, either brick or wood.

MOYERS & MIDDAGH.

To Build a Town in Virginia.

LEXINGTON, VA., May 4, 1887.

Editor Manufacturers' Record:

The Balcony Falls Co. was organized here on April 23 with a capital subscribed of \$10,000, Col. A. S. Buford, president, and myself secretary and treasurer, pro tem. Movements were at once put on foot to raise the capital to \$1,250,000, and we have good hopes of success. The idea of the company is to build furnaces at Balcony Falls, lay off a town, and add other industries, as circumstances offer. The beautiful natural advantages of the location, so well provided with rail transportation, and surrounded by the rich Blue Ridge iron and other ores, strike every beholder. The building of the Virginia Western Railroad, now being located, and to be built right away, will give a fourth independent line to the coal and coke supplies; so, altogether, we feel very hopeful of doing something to build up our part of the Old Dominion. The MANUFACTURERS' RECORD is doing a great work and its statements are accepted as true all over the country.

J. D. H. ROSS.

To Build a Large Temple.

LITTLE ROCK, ARK., May 2, 1887.

Editor Manufacturers' Record:

The Masonic temple will be built, to cost about \$50,000 or \$60,000. Funds are on hand for that purpose. FRED. KRAMER.

ROCKMART, GA., May 4, 1887.

Editor Manufacturers' Record:

I am opening out a manganese bed near this place on the E. T. V. & G. R. R., and intend either working it myself or having it worked or selling it. DR. S. B. PEARCE.

Developing Mines.

ARGENTA, ARK., May 4, 1887.

Editor Manufacturers' Record:

We at present are developing mines near Dallas, Ark. Have been working two weeks. Prospects are very promising.

S. P. MILLER & CO.

TAMPA, FLA., April 30, 1887.

Editor Manufacturers' Record:

We have organized a brick, tile and pottery company here with a capital stock of \$40,000. The company will be known as Hillsborough River Brick Co.

HILLSBOROUGH RIVER BRICK CO.

CHATTANOOGA, TENN., May 2, 1887.

Editor Manufacturers' Record:

We are simply putting up a new building near the saw mill of Messrs. Snodgrass & Fields, who are the company of the firm of John Howenstine & Co. We may put in some new machinery to increase the capacity.

JOHN HOWENSTINE & CO.

Furniture Factory.

DALLAS, TEXAS, April 30, 1887.

Editor Manufacturers' Record:

We are starting a new enterprise in the way of a furniture manufactory. Though we are commencing on somewhat a small scale, we have come to stay.

COURSEY & CROSSMAN.

Will Rebuild Saw Mill.

CONROE, TEXAS, April 30, 1887.

Editor Manufacturers' Record:

My mill has been burned, and I will rebuild. Have ordered outfit from the Filer-Stowel Mfg. Co., of Milwaukee, Wis.

J. CONROE.

BENTON, ARK., May 3, 1887.

Editor Manufacturers' Record:

Pottery clay has just been tested and proves to be of most excellent quality. It is 20 feet in thickness, and will be developed at once.

O. C. ATCHISON.

Fire-Brick Works for Anniston.

CINCINNATI, OHIO, May 2, 1887.

Editor Manufacturers' Record:

We intend to erect a large fire-brick works at Anniston, Ala. Work will commence this month. Most of the machinery now ordered. We shall cover six acres of ground, and if the demand will justify a daily make of 50,000 bricks we shall make that quantity. TAYLOR & SONS.

To Build a Blast Furnace and More Coke Ovens.

CINCINNATI, O., May 9, 1887.

Editor Manufacturers' Record:

Myself and other parties have purchased the Soddy mines, near Chattanooga, Tenn., and it is our intention to erect a blast furnace, build more coke ovens and double the output of the mines. E. ZIMMERMAN.

Developing Mica Mines.

FREEMANSVILLE, GA., May 3, 1887.

Editor Manufacturers' Record:

We are at present working mica mines in Milton and Cherokee counties; also have mica property in adjoining counties which we propose to develop in the near future.

GEORGIA MICA CO.

W. T. BULL, Superintendent.

Increased Capital.

LEXINGTON, VA., May 2, 1887.

Editor Manufacturers' Record:

Our company has increased its working capital. The contract has been awarded to our company for building a church at Roanoke City. LEXINGTON MFG. CO.

To Erect a Stamp Mill.

BEAR, ARK., April 25, 1887.

Editor Manufacturers' Record:

I expect to erect a stamp mill here sometime this summer, if other mills which are about being put up are successful. Am not sure what kind I shall build. Want to get the best, and what will be suitable to treat our ores. About how do prices range? J. W. BARNES.

To Develop Iron Ore Lands.

FORT SMITH, ARK., May 7, 1887.

Editor Manufacturers' Record:

The Paris Land & Mining Co. has been organized. We have discovered a very large and rich deposit of hematite iron directly on the line of the Fort Smith, Paris & Dardanelle R. R., and are now engaged in opening it up for the purpose of developing and working it. THOMAS TOLES.

Building a Band Saw Mill.

FORD, KY., May 7, 1887.

Editor Manufacturers' Record:

We are erecting a large band saw mill at Ford, Ky., with all latest improvements. A. J. ASHER.

To Manufacture Cigars.

SELMA, ALA., May 6, 1887.

Editor Manufacturers' Record:

The Selma Cigar Manufacturing Co. was chartered on the 23d day of April under the laws of the State, with a capital of \$4,000. The president is W. H. Hunt, and general manager, E. F. Wise. We will make it a point to make every cigar smoked in Central Alabama, to induce farmers in Alabama to raise tobacco, and to import direct from Cuba and bring it up the Alabama river. We will also make cigarettes; we will need some machinery for the cigarettes, but have everything necessary for the cigars. Our factory and salesroom is No. 915 Broad street. W. H. HUNT.

To Build a Theater.

AUGUSTA, GA., May 5, 1887.

Editor Manufacturers' Record:

A company has been organized for the purpose of building a theatre. Our plans have not yet been received from the hands of architects; hope to be ready for use before November 1st. JNO. JAY COHEN.

Machinery Wanted.

BIRMINGHAM, ALA., May 9, 1887.

Editor Manufacturers' Record:

We want estimate on a complete plant of machinery for the manufacture of horse and mule shoes. LAFAYETTE D. CARROLL.

Hosiery Factory.

COLUMBIA, S. C., May 9, 1887.

Editor Manufacturers' Record:

We intend putting in new machinery for a hosiery factory. M. A. MARKLEY & CO.

To Establish Manufactories.

JOHNSON CITY, TENN., May 9, 1887.

Editor Manufacturers' Record:

Capt. W. J. Haney is expecting to open up a sash and door factory very soon. D. G. Colson, of Knoxville, Tenn., has secured 6½ acres of land for the purpose of establishing extensive manufacturing establishments at this place. W. A. KITE.

CLEVELAND, TENN., May 9, 1887.

Editor Manufacturers' Record:

The company is incorporated under the firm name of S. W. Marshall & Co. The capital stock will \$10,000. The planing mill is in course of erection, and will be ready to run by first of June. We are going to erect dry kiln, with latest hot blast apparatus, at a cost of \$1,000.

S. W. MARSHALL & CO.

To Build a Cotton Factory.

BENNETTSVILLE, S. C., April 30, 1887.

Editor Manufacturers' Record:

Col. O. S. McCall and J. F. Everett, two prominent citizens of this place, are getting up subscriptions for a cotton factory, and have within five thousand dollars of the required amount, and to secure balance will be an easy matter. No organization as yet, but from the present outlook the cotton factory will be built. T. L. CROSLAND.

ALEXANDRIA, VA., May 7, 1887.

Editor Manufacturers' Record:

The Mineral Railroad bill has passed, and by the General Assembly of Virginia. The road is expected to extend from Strasburg, Shenandoah county, Va., to Moorefield, Hardy county, W. Va.; from there it will either go west, to Tucker and Grant counties, or north towards Cumberland, Md. JNO. B. SMOOT.

Building Saw Mills.

BYNUMS, ALA., May 7, 1887.

Editor Manufacturers' Record:

We are now putting up the following machinery: Two saw mills, total capacity 40 M feet per day. Two of the Cole lumber dryers. One lath and picked machine, moulding machine, heavy resawing machine, and automatic trimmer. We are also laying down three to four miles of pole road, and will be running one of Tanner & Delaney's pole road locomotives in a week's time. Will commence to cut about 20th May. BARNWELL & HUGER.

A Planing Mill.

ROCKMART, GA., May 6, 1887.

Editor Manufacturers' Record:

I have bought a planing mill, and will have it running by the 1st of June, if nothing happens. W. B. TYLE & CO.

New Enterprises at Leeds.

BIRMINGHAM, ALA., May 5, 1887.

Editor Manufacturers' Record:

We have formed a stock company for the development of Leeds, of \$150,000, paid up, and propose to build a 40-room hotel and 10 to 15 cottages. Plans have been decided upon and work will commence as soon as practicable. We also will start pressed brick works, with a capacity of 30,000 per day, at once. Are now negotiating with New Orleans parties who wish to put up pressed brick works of 50,000 capacity, and Birmingham and Western New York men who wish to put up pressed brick machinery of 35,000 to 40,000 capacity. The clay is found to very superior for making pressed brick, and Leeds bids fair to be a considerable manufacturing point for brick and clay products, as a good vein of clay has been found near there suitable for making terra cotta work and coarse pottery. I think we will certainly make arrangements satisfactory to all parties, and that all these works will be started. The Leeds Lumber Co., lately organized, \$10,000 capital, have their planer in operation; working well; 10,000 feet capacity per day. Demand here for brick, lumber and all kinds of building material is enormous. Our company is a good one, with a liberal charter. Corporators are J. A. Montgomery; W. J. Cameron, president First National Bank; F. Y. Anderson, general manager Alabama Mineral Land Co.; G. B. West, president East Birmingham Land Co.; J. Forst, tobaccoist. We have other strong men in it now, and we think that the natural advantages of the place for manufacturing will be brought before the people in such a light as to induce them to select it, especially for smaller manufactories and for all clay products, glass, lime and lumber. Fuel is very cheap. The Henry Ellen Coal Mines only 1½ miles distant. PHARAOH.

Erecting a Pickle Factory.

LOUISVILLE, KY., May 4, 1887.

Editor Manufacturers' Record:

We are erecting a large 3-story brick (with 11 foot cellar), 44 feet front by 105 feet deep. It is for a pickle factory, capacity of 50 barrels per day. J. M. CLARKE & CO.

Will Rebuild Planing Mill.

PETERSBURG, VA., May 4, 1887.

Editor Manufacturers' Record:

We intend rebuilding at once. ORR & HOLT.

PLAQUEMINE, LA., May 2, 1887.

Editor Manufacturers' Record:

We have mill nearly complete. Will be under way in next week or ten days. Have changed our firm into stock company under following title—the A. Wilbert's Sons Lumber & Shingle Co., on account of head of firm having retired to private life. A. WILBERT'S SONS LUMBER & SHINGLE CO.

New Machinery.

MORRISTOWN, TENN., May 2, 1887.

Editor Manufacturers' Record:

We are now putting two new boilers in, giving us a capacity of 150 horse-power. Will add new machinery soon, and are arranging to build an elevator of 50,000 bushels capacity, to run expressly for our mill. MORRISTOWN MILL CO.

Rebuilding Saw and Planing Mills.

HATTIESBURG, MISS., May 2, 1887.

Editor Manufacturers' Record:

We commenced building April 25, and will be able to run as soon as new machinery arrives. Hope we will commence operations in two weeks from date. KAMPER & BUSCHMAN.

Will Erect Electric Light Plant.

ATLANTA, GA., May 5, 1887.

Editor Manufacturers' Record:

We have secured grounds, charter and city permits, and have begun on building, but have not fully decided as to size of our steam or electric plants. EMPIRE STATE ELECTRIC CO.

Street Cars and Iron Rails Wanted.

MACON, GA., May 6, 1887.

Editor Manufacturers' Record:

Our whole people here are anxious to have a new set of water works. Who can build them? We want also a better set of street cars, better iron rails, &c. Who manufacture them? We want contractors for the iron work of a \$20,000 market. We want information as what dummy engines can do? Where can we get them? What they cost? What the track will cost per mile? Who will contract for them? R. K. HINES.

Lumber Mill.

CAMPBELL CITY, FLA., May 4, 1887.

Editor Manufacturers' Record:

I have just started my lumber mill at this place, known as the Campbell Lumber Mills, with a capacity of 5 000 feet of dressed lumber per day. R. H. SEYMOUR.

Machinery Wanted.

FAYETTEVILLE, N. C., May 4, 1887.

Editor Manufacturers' Record:

Please place me in correspondence with the manufacturers of machinery used in the factory of the Oval Wood Dish Co., at Mancelana, Mich. N. H. SMITH.

DALLAS, TEXAS, May 7, 1887.

Editor Manufacturers' Record:

The Dallas, Archer Coal & Iron Railway Co. has just been incorporated at Dallas, Texas, by Boston and Dallas capitalists, who propose to build a railroad from Dallas to the coal-fields and iron ore mines of Wise and Archer counties, distant about 125 miles. The road will run through the flower of the agricultural district of North Texas into the mineral lands of the North West that now only await its advent for their successful development. The owners of the coal-fields are now profitably operating them, although they have to haul the coal for a long distance by wagons. The capital stock is \$2,500,000, of which 10 per cent. is paid in; will build the road for a distance sufficient to bond it to its completion. Upon the completion of the road the company will erect and operate large cotton and grain mills, and develop the inexhaustible iron mines of that section, which are now practically useless. GEORGE F. ALFORD, Secretary.

PALESTINE, TEXAS, May 3, 1887.

Editor Manufacturers' Record:

Our Edison electric light will increase their plant to 1,000 light. They will remove to a new location, having bought a fine building, 25x100 feet, two stories high, and adjoining the Eureka Gin Manufacturing Co. J. W. Ozment, president; J. H. Bryan, secretary and treasurer, and D. Harris, superintendent, of the Edison Electric Light Co. Have all been advanced to the same positions in the Eureka Cotton Gin Manufacturing Co., putting both corporations under one management. J. W. OZMENT.

CATOCTIN FURNACE, MD., May 6, 1887.

Editor Manufacturers' Record:

We will blow in another furnace tomorrow. THE CATOCTIN IRON CO.

LOUISVILLE, KY., May 3, 1887.

Editor Manufacturers' Record:

D. Shanahan & Co. have made a contract to construct the road from St. Joseph to Florence, Ala. D. SHANAHAN.



BUFFALO HAMMER CO., Buffalo, N. Y., U. S. A.,

Manufacturers of a full line of

Solid Cast Steel Hammers, Sledges, Mauls,



RAILROAD TRACK TOOLS, &c.

Every Hammer or Tool having our name is fully warranted. Catalogues and discounts sent on application.

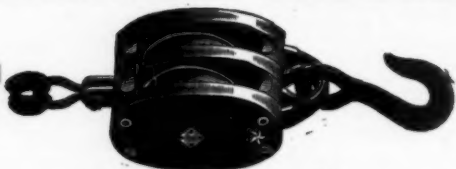
BAGNALL & LOUD BLOCK CO. BOSTON, MASS.

Largest Manufacturers of Tackle Blocks in the World.

Manufacturers of the Latest Improved Self-Adjusting ROLLER BUSHED and GENUINE METALINE BUSHED and Iron Bushed Rope and Iron Strapped

TACKLE BLOCKS.

CLASP OPEN.

Send for the Celebrated
STAR BRAND.Send for Catalogue
No. 5.

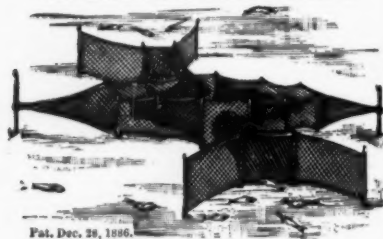
Improved Self-Adjusting Roller Bushed Iron Sheave.

Improved Harcourt Patent Block.

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Patent FISH & TERRAPIN TRAP

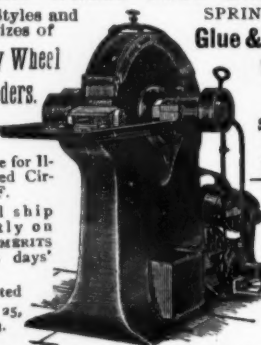
FOR RIVER AND CREEK FISHING.



Pat. Dec. 28, 1886.

J. S. JOHNSON & CO.
Manufacturers Twines and Netting,
121 South St., BALTIMORE.
Write for Description and Prices.

EMERY WHEEL TOOL GRINDER.

55 Styles and
Sizes of
Emery Wheel
Grinders.

SPRINGFIELD
Glue & Emery
Wheel
Co.
Spring-
field,
MASS.

* Write for Il-
lustrated Cir-
cular F.
Will ship
strictly on
their MERITS
for 30 days'
trial.
Patented
Sept. 25,
1883.

The Grinding is done so rapidly that they will pay for themselves every year over grindstones as a gift.

LEE'S FILTERING JOINT

Prevents Soot, Leaves, Bugs,
Caterpillars or dead Birds
from entering the Cistern.
It is the Cheapest and
Best Filter ever made.
It will not clog up.
Always set for use.
Prices and Descrip-
tive Circulars fur-
nished on application.

THOMAS LEE,
Patentee and Sole Manufacturer,
46 and 48 Race St., Cincinnati, O.



PEERLESS.



The Gooch "Peerless"

And "Giant" Freezers.

OUR FREEZERS STAND UNRIVALED.

THE BEST GOODS EVER MADE.

Superior in Every Particular.

No other Freezers ever had such a sale. Send for Price-List and Discounts.

PRICES REDUCED FOR 1887

MANUFACTURED BY THE

GOOCH FREEZER CO.

28, 30, 32, 34, E. Ninth Street,
36 and 38

CINCINNATI, O.



Cleveland Machine Co.

**SUPERIOR
OLID
TEEL
HEARS.**

FORGED
FROM

BAR STEEL

AND
TEMPERED
IN

OIL.

WE CHALLENGE COMPETITION FOR

Cutting and Wearing Qualities.

THE FINEST. AS GOOD AS THE BEST.

We Expect to Lead, and you cannot afford to lose a chance of keeping posted on the IMPROVEMENTS of the age
Get our prices, and then try a sample order. Your customers will compel you to order again.

Address, with name of paper where you saw this,

The CLEVELAND MACHINE CO., 143 to 161 Leonard St., CLEVELAND, O.

R. R. ROUSE PATENT ELECTRO-PLATED WELL POINT.



1 1/4	1 1/2	2
\$1.50	\$2.50	\$6.00
2 1/2	3	4
\$9.00	\$12.00	\$35.00
My 1 1/4 Point is 24 1/2 in. long and has 24 1/4 by 1/2 openings.		

A showing the openings before the wire gauze is soldered on. B After wire gauze is soldered on. C showing wire gauze and perforated brass soldered on. These 1 1/4 Points (caliber) are Electro-Plated, with Pure Block Tin inside and outside before receiving the coverings, there being no raw iron to corrode or rust or cause an unpleasant taste in the water. The Electric Process by which it is done is patented and exclusively owned and controlled by me for Driven Well Points in the United States. Warranted not to strip loose where soldered. Write for discounts and circular.

R. R. ROUSE, INDIANAPOLIS, IND.

NIAGARA STAMPING & TOOL CO.

BUFFALO, N. Y.

MANUFACTURERS OF

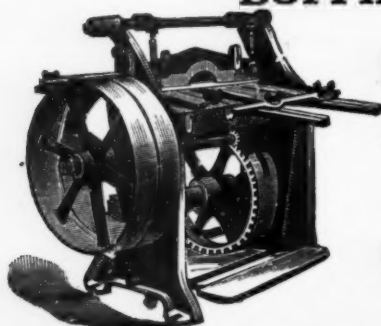
FOOT AND POWER SHEARING MACHINERY

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Presses and Dies for Working Sheet Metal.

Power Chopping Shears for Nail and Tack Plates, and for Cutting Steel for Cutlery, etc., Works.

Tinners' Machines AND TOOLS OF ALL KINDS.



Corrugating and Curving Rolls for Roofing, Siding and Ceiling. Squaring, Circle, and Hand Shears. Send for our complete illustrated Catalogue and Price List, and Mention this paper.

G. A. Crosby & Co.

MANUFACTURERS OF

Presses, Dies,

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Special Machinery

FOR

Sheet Metal Workers.

259, 261 & 263

RANDOLPH ST.

CHICAGO, ILL.



The Value of Exact Statements.

The Baltimore MANUFACTURERS' RECORD should be sure of its facts. Referring to the table in our recently-issued annual report of new furnaces contracted for in March last it says: "The Sloss Iron & Steel Co. will build only one furnace and not two, as stated in this table. The DeBardeleben Co. have contracted for two more, making four that they will have at Bessemer, while the Pennsylvania Steel Co. claim that they will complete two or three furnaces at Baltimore this year and add several more later on." These three statements of the MANUFACTURERS' RECORD are at variance, expressed or implied, with those in the annual report. It may be worth noting that in all the matters referred to by our cotemporary we are right and it is wrong. (1) Under date of March 24th Mr. Joseph F. Johnston, President of the Sloss Iron & Steel Co., writes us from Birmingham that "we have bids now on our table to build for us two blast furnaces, 17x75 feet each. We hope to have them finished and in operation within twelve months." These are the statements which appeared in our table and in the footnote. (2) Under date of March 19th Mr. H. F. DeBardeleben writes us that his company had then in course of erection two blast furnaces at Bessemer. The annual report mentions these two and also two additional furnaces that were projected at Bessemer, making four in all. The MANUFACTURERS' RECORD's manner of referring to the enterprises at Bessemer implies that four furnaces were under contract by the DeBardeleben Co. in March, in which implication it is certainly in error. (3) The plans of the Pennsylvania Steel Co. at Sparrow's Point, in Maryland, at present embrace only the building of two furnaces, to be commenced this year, as stated in our report. We have the authority of the officers of the company for this statement; they are our near neighbors and we personally consulted them. What the company may do in the future it does not know itself. It certainly will not build even one furnace "at Baltimore." Sparrow's Point is miles away from Baltimore, as the MANUFACTURERS' RECORD ought to know.—Bulletin of the Iron and Steel Association.

Now we think our friend the Bulletin is somewhat mistaken. We published the Bulletin's statement and then in adding our own comments, aimed to include all the furnaces now under contract and said: "The Sloss Iron & Steel Co. will build only one furnace and not two, as stated in this table. The DeBardeleben Co. have contracted for two more, making four that they will have at Bessemer, while the Pennsylvania Steel Co. claim that they will complete two or three furnaces at Baltimore this year and add several more later on."

(1) We are well aware of the fact that the Sloss Co. *did* intend to build two furnaces, but prior to giving out any contract, and after President Johnston's letter to the Bulletin, his company purchased the Coalburg Coal & Iron Co., which is building a furnace, and it was then announced in the report of their meeting that they would build only one furnace, and hence our statement. Since our last issue, however, another dispatch says that they will build two. (2) We have Mr. DeBardeleben's statement under date of April 14 that his company had awarded the contracts for the two additional furnaces, otherwise we should not have so stated, and we do not see how our language can possi-

bly be construed to mean that these furnaces were under contract in March. We had distinctly stated that the Bulletin's statements of new furnaces included those "for which contracts had been closed up to March, 1887;" In fact, our language is very plain on this point. After publishing the Bulletin's list, as those contracted for up to March, and referring to the Sloss Company, we added: "The DeBardeleben Co. have contracted for two more, making four that they will have at Bessemer," which would most naturally be understood as meaning that the contracts for the last two had been made since the Bulletin's compilation of March. We were aiming not to criticize the Bulletin's figures of what was under contract in March, but to show what was *now* under contract. Whether the Pennsylvania Steel Co. will build its furnaces at Baltimore or at Sparrow's Point is hardly worthy of discussion. Sparrow's Point, is of course, not in the city limits; it is in fact, just as the Bulletin in its previous issue said, "a few miles below Baltimore," but as nearly every mention of the enterprise has referred to it as being located at Baltimore, we merely used that to indicate its position. If "the plans of the Pennsylvania Steel Co. at Sparrow's Point, in Maryland, at present embrace *only* the building of two furnaces to be commenced this year," then somebody is at fault. In the Philadelphia Press, of April 14, there was a special dispatch made up from an article in the MANUFACTURERS' RECORD referring to the building of steel works and furnaces, from which we take the following:

During the present year two or three furnaces will be completed and in operation, each having a capacity of 200 tons daily. While the furnaces to be built this year are in operation the work of erecting buildings and machinery for the manufacture of all kinds of steel will be in progress, so that eventually Holly Grove (Sparrow's Point) will be the site of a good sized manufacturing town.

Mr. F. W. Wood, the superintendent of the Pennsylvania Steel Co., in a letter to the MANUFACTURERS' RECORD under date of April 15, said:

Telegram from Baltimore contained in the Philadelphia Press of yesterday is substantially correct concerning information it gives as to our work near Baltimore.

We imagined that Mr. Wood knew what his company intended to do, and based our statement on this information from him.

ARTESIAN

Well-Drilling Machine.

The advertiser, owning a first-class Artesian Well-Drilling and Boring Machine, for depths from 300 to 3,000 feet, desires a party to take an interest in same and erect it in any good Southern or Western town, to bore for water, gas or oil. Party taking interest to manage the business, or if stock company is organized, owner will take stock. Address

P. S. D. CO.

1207 Hamilton St., Philadelphia, Pa.

WANTED

An overseer of weaving who understands making plaids, cottonades, chevrons, etc. A first-class man only is wanted, and to such a one good wages will be paid. Address, O. A. ROBBINS, Treasurer, CUMBERLAND, N. C.

COFFEE MILLS.		GLUE POTS.	
Parker's.....	dis 45	Tinned and Enamelled.....	dis 35
Wilson's.....	dis 40	Family, Howe's "Eureka".....	dis 40
Logan & Strobridge.....	dis 45	Family, L. F. & C's "Handy".....	dis 40
Enterprise Mfg. Co.....	dis 45		
COMPASSES, DIVIDERS, AC.		GRINDSTONE FIXTURES.	
Compasses.....	dis 70	Sargent's Patent.....	dis 70
Calipers.....	dis 70	Reading Hardware Co.....	dis 33
Dividers.....	dis 70		
Cook's Pencil.....	dis 10	GUN WADS.	
COOPERS TOOLS.		Eley's B. E. wads, 11 upwards.....	
Bradley's.....	dis 15	" " " 9 and 10.....	dis 15
Horton's.....	dis 15	" " " 7 " 8.....	dis 15
CROW BARS.		" P. E. " 11 upwards.....	dis 20
Cast Steel.....	dis 3 1/2	" " " 9 and 10.....	dis 15
Iron, Steel Points.....	dis 3 1/2	" " " 7 " 8.....	dis 4.45
CURLING IRONS, AC.		HAMMERS.	
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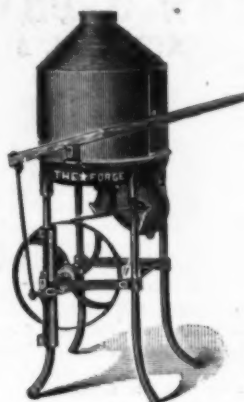
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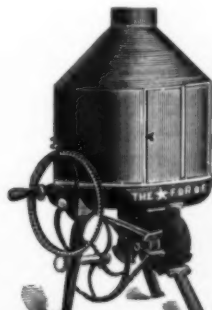
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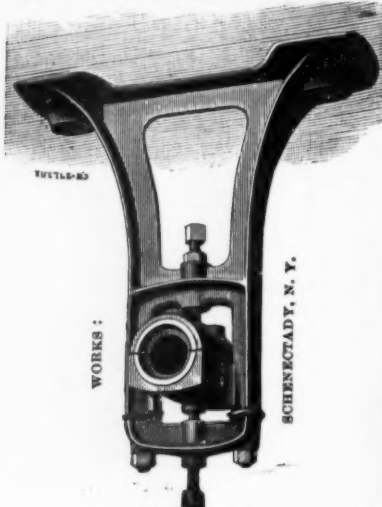


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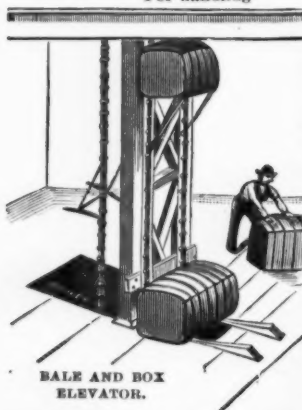
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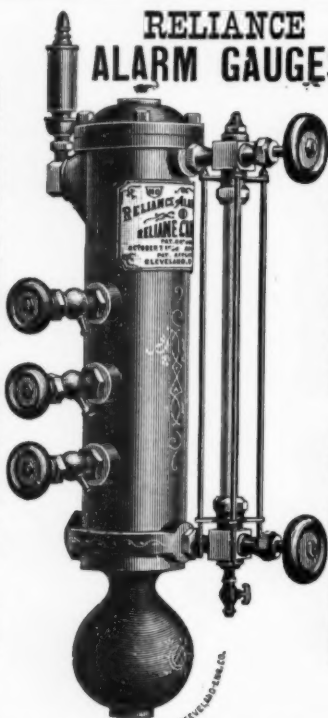
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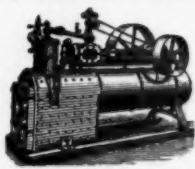


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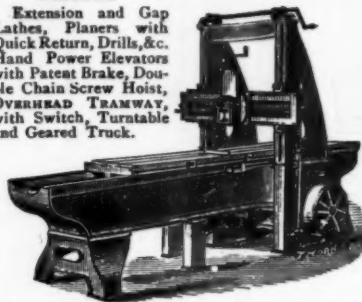
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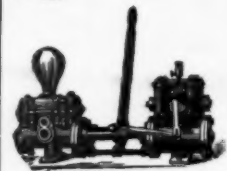
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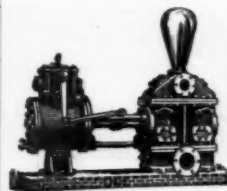
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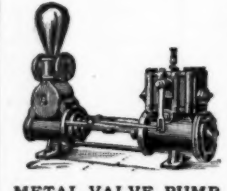
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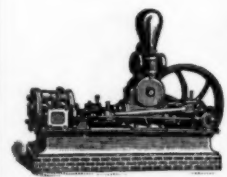
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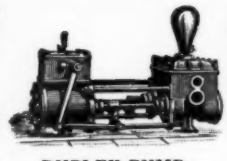
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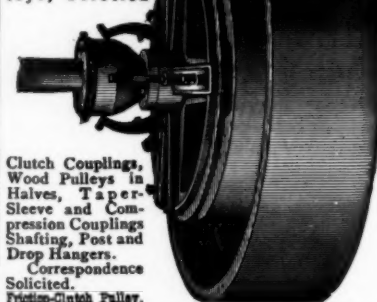
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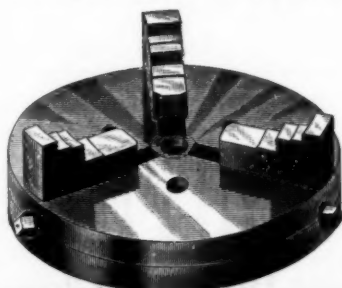
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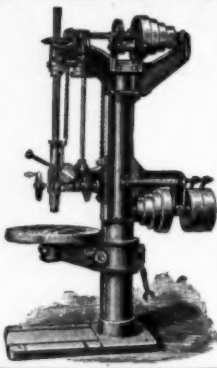
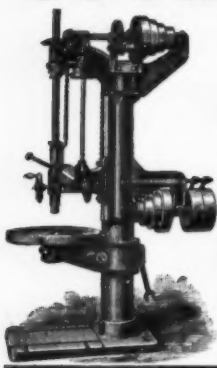
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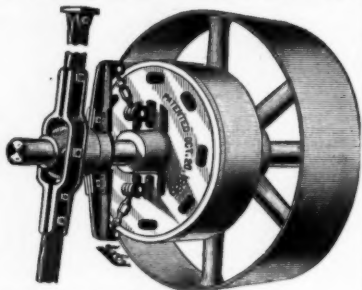
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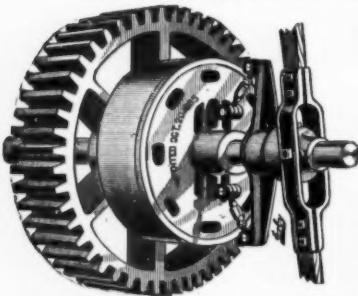
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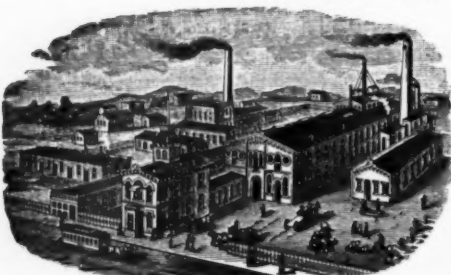
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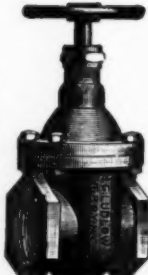
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(Signed) O. D. ASHLEY, Secretary,
Wabash, St. Louis & Pacific Railway Company.

OFFICE OF THE GENERAL PASSENGER AGENT, NEW YORK, LAKE ERIE & WESTERN R. R. CO. }
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DEAR SIR:—I am in receipt of copy of your Directory of Railway Officials and Railway Directors for 1886, and have examined the same and find it very complete. I am especially pleased with your classified Directory of Advertisements, by which parties desiring any kind of railroad supplies can turn to this index and immediately ascertain the names of parties advertising the kind of supplies they desire to obtain. Yours truly,

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The Company is formed under and by virtue of a Charter granted June 19, 1886, to ANDREW J. ROGERS, JAMES M. OLMSTEAD, HENRY S. WELLES, DANIEL W. CLARK, GEORGE E. SMITH, JOHN E. SAUNDERS, and FREDERICK G. BRUNEL, and their associates, in accordance with the Laws of the State of Georgia, to run for twenty years, with the right of renewal, and authorizing a Capital Stock of \$100,000, in shares of \$50 each, with power to increase the same at any time to any amount not exceeding \$10,000,000, payable in either money, or real or personal property that may be utilized in the business of the Company. The Charter is, by comity of the States, made operative throughout the entire country.

THE PRELIMINARY ORGANIZATION

Has been duly effected by electing the following named

OFFICERS.

ANDREW J. ROGERS, Prest. JAMES M. OLMSTEAD, Vice-Prest. GEO. E. SMITH, Sec. FRED'K G. BRUNEL, Treas.

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A. J. ROGERS, Brunswick, Ga., and 227 W. 10th St., New York.
JAMES M. OLMSTEAD, 85 Devonshire St., Boston, Mass.
HENRY S. WELLES, 229 Broadway, New York.
GEORGE E. SMITH, 32 Broadway, New York.

FREDERIC G. BRUNEL, Grand Union Hotel, New York.
JOHN E. SAUNDERS, Nashville, Tennessee.
DANIEL W. CLARK, 11 Winthrop Street, Hartford, Conn.
WILLIAM B. BURROUGHS, Brunswick, Ga.

EXECUTIVE COMMITTEE.

ANDREW J. ROGERS, HENRY S. WELLES, FREDERICK G. BRUNEL, WILLIAM B. BURROUGHS.

The said Officers and Directors to hold over until the First Meeting of the Stockholders.

INCREASE OF THE CAPITAL STOCK.

In order to promptly acquire ample areas of Land and Harbor Water frontage, for colonization, wharfing and other purposes, as well as obtaining sufficient funds for carrying out the several objects of the Company, the Directors have duly voted an increase of the Capital Stock from \$100,000 to \$3,000,000, payable in either money or in any real or personal property that may be utilized in the business of the Company, (as provided in the charter,) and have authorized the opening of Subscription Books for said \$3,000,000 of Capital Stock.

EUROPEAN CO-OPERATION.

The President of the Company has perfected arrangements with competent European parties whereby they agree to subscribe, or cause to be subscribed, two-thirds of said \$3,000,000 of Capital Stock, provided the other one-third of said Stock is duly subscribed in America, and to pay in \$200,000 for every \$100,000 thereof that shall have been so subscribed in America and paid into the treasury of the Company.

TRANS-ATLANTIC STEAMSHIP LINE.

The President of the Company has also arranged with competent European ship owners for promptly putting on and maintaining a Trans-Atlantic Steamship Line between the port of Brunswick, Ga., and ports in the United Kingdom; said line to comprise a fleet capable of doing all the trans-Atlantic shipping business of the Company, and to be put on as soon as the Company announces itself ready with freights, etc., for trans-Atlantic shipment.

THE GENERAL ENTERPRISE

Comprises the building up and maintaining an extensive domestic and foreign trade at and through the city and port of Brunswick, Ga., and corresponding ports, and engaging in a general system of Lands Improvement, particularly including the building up, extending and beautifying the city and suburbs, and improving and perfecting the Harbor of Brunswick for maritime commerce, and generally aiding in developing the agricultural, mineral and other natural resources of, and settling the surrounding districts and corresponding sections of the interior, with the view to participating in the general benefits and increase in value of properties accruing from such developments and improvements, and to inaugurate and conduct

BUREAUS OF COLONIZATION AND INDUSTRY

As special departments of the General enterprise for commercially engaging in such systems of Colonization and Co-operative Industries as will, from time to time, aid in relieving the Labor Markets of all surplus artisans and other workers, including the worthy, able-bodied indigent classes, by drawing them off and settling or aiding them in settling and getting fairly started on alternate lots of the Company's Lands, in suitable rural and growing village districts, or so employing or aiding them to find such suitable employment as will make them reciprocally useful to the Company and ensure their becoming self-sustaining and prosperous constituents of the commonwealth, and finally reimbursing the Company with fair profits for all such assistance, thus materially aiding in freeing society of its worthy, able-bodied, destitute and suffering industrious classes by reclaiming them from all anarchical tendencies, and thence through their own prosperity readjusting them as good, law-abiding and patriotic citizens of the Commonwealth.

THE COMMERCIAL DEPARTMENT.

With the foregoing objects in view, the Company will engage in the following enterprises, taking them up and carrying them forward in such business order as will ensure the prosperity of every department of the General Undertakings, beginning with The Commercial Department proper, it being the only medium through which the more benevolent and humane purposes can be successfully carried into effect with profit to the Company. The Directors are already assured of a large paying business from the commencement of active operations in the following specified enterprises, in which the Company will be constantly turning over its funds and realizing from 5 per cent. upwards of net profits every sixty or ninety days. Viz: A General

TRANS-ATLANTIC AND COASTWISE SHIPPING BUSINESS.

Including storing, wharfing and forwarding at and through said port and corresponding ports, and the sending of goods and other valuables through in bond or by through bills of lading to and from any and all points; the advancing of money on bills of lading and on goods and other property in store; and acting as merchants and general agents, and doing a banking and general commission business. In these departments alone the Company will find constant, active, safe and profitable employment for a considerable amount of its capital, thereby ensuring fair dividends from the start.

OTHER SOURCES OF REVENUE.

By judicious purchases, both in respect to price and locality of lands, as well as the suitability of the climate, and thence properly settling immigrants on alternate lots thereof, carefully reserving every alternate farm or section for sale later on, the Company could reasonably expect to realize from 10 to 25 per cent. net on sales of the first alternate farms or other lots, and thence, in future further realizing from 100 to 500 per cent. and upwards from the ultimate sales of the reserved building lots, farms or sections. This plan carried out on a commensurate scale would of itself, without risk of the capital invested, enrich any well-managed company.

GENERAL LANDS IMPROVEMENT DEPARTMENT.

To buy, own and sell lands and deal in real estate and leaseholds generally, and to engage in a general system of Lands Improvement, particularly including the building up, extending and beautifying the City of Brunswick and Suburban districts, and generally developing and settling the surrounding country; the establishing and settling colonies in the interiors of the various States, and parts of States, wherein immigrant settlers and other industrial classes are needed; laying out and building up villages, towns, and cities; making roads, streets and all necessary and profitable improvements; aiding in the fuller development of the vast agricultural, mineral and other

NATURAL RESOURCES OF THE SOUTH.

Southwest and corresponding sections; the breeding and rearing of horses, mules, cattle and live stock generally, for home and foreign markets; the laying out, improving, stocking and working farms of all kinds; developing water powers for manufacturing, milling and other purposes; opening and working coal, iron and other mines, and marble and stone quarries, with a view to making money by profitably employing the idle, and making homes and livings for the worthy, able-bodied indigent classes, as well as making the several properties productive and generally enhancing the values thereof and making them more saleable. In fact, the company offers

SAFE AND PROFITABLE INVESTMENTS

In every department of the General Enterprise, basing the stability of the entire Capital Stock not only upon the General Business of the Company but upon real estate carefully chosen for its intrinsic worth, its suitability for the purposes of the Company and its improvable qualities and possible continual enhancement in value from direct and surrounding improvements.

For a fuller statement of the PURPOSES and PLANS of the Company, see the Charter and Prospectuses, Documents Nos. 1, 2 and 3 of the Company's pamphlets, which can be obtained at the Offices of the Agents, or from any of the Officers of the Company.

FORMS OF APPLICATION

For Stock on the part of those who may desire to subscribe to the Capital Stock, but are unable to reach the Agent or Officer in charge of the Subscription Books, will, on application in writing to such Agent or Officer, or to the President of the Company, be forwarded, together with the necessary instructions for securing the number of Shares such Applicant may desire or that may be allotted to him or her.

PROPOSALS FOR TRANSFERRING LANDS

Or other available property in exchange for Stock in the Company will be entertained, and the suitability, quality and value of the property and titles thereto will be duly examined by proper experts in the interest of the Company; but all such proposals must be submitted in writing to an Agent or Officer, or to the President of the Company on or before the 1st day of August next, and must be accompanied with a full description, giving all particulars, including the situation and value of such property.

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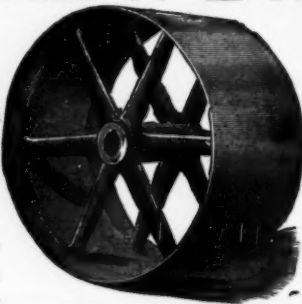
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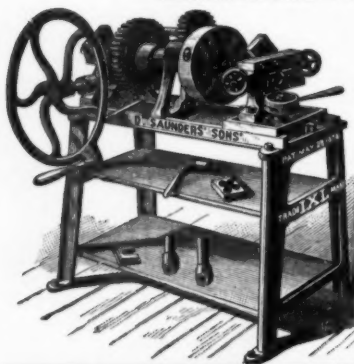
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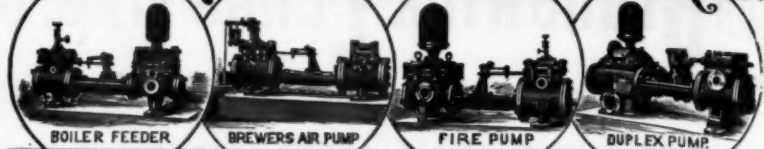
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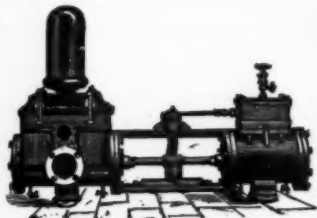
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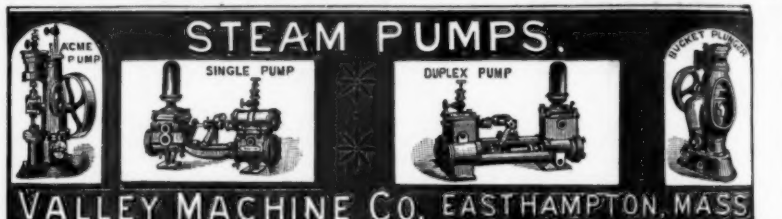
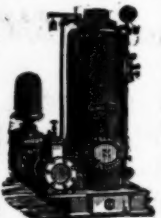
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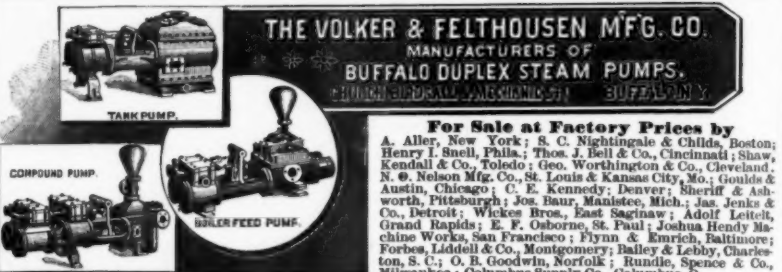


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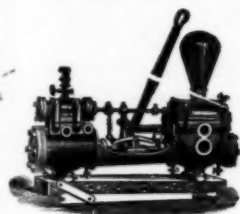
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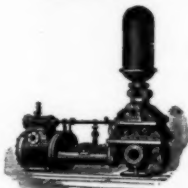
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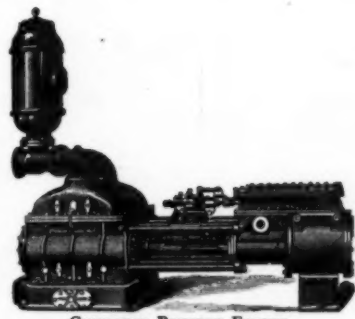
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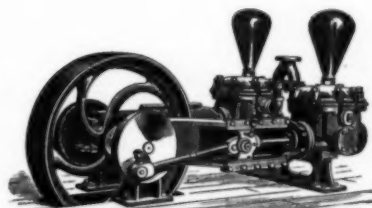
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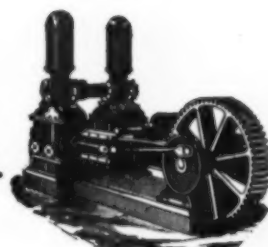
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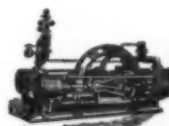
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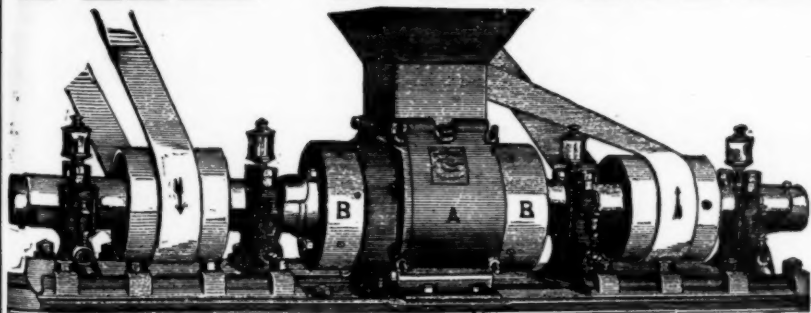
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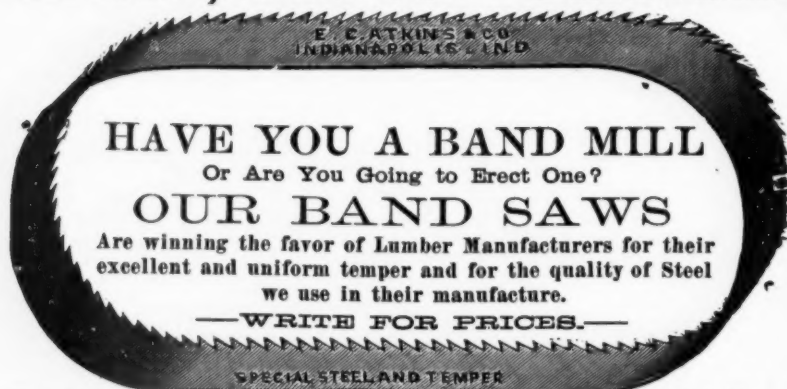
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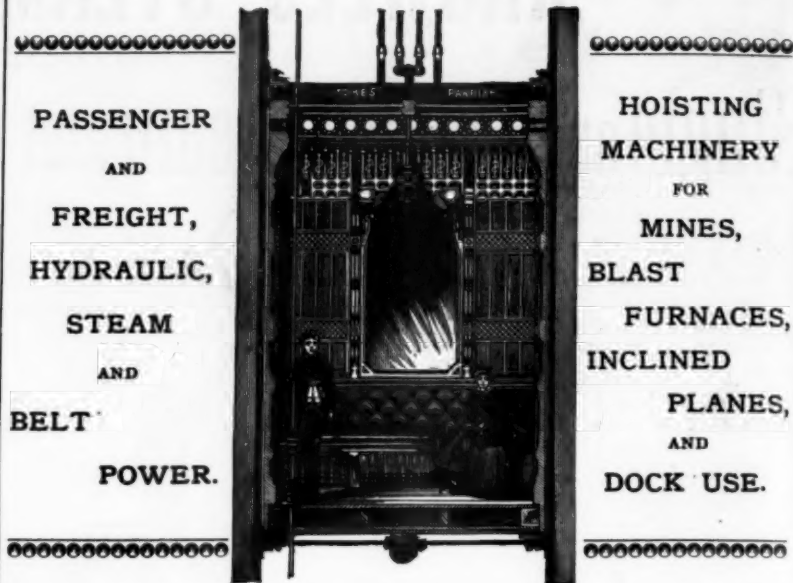
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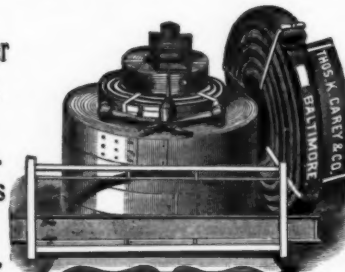


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